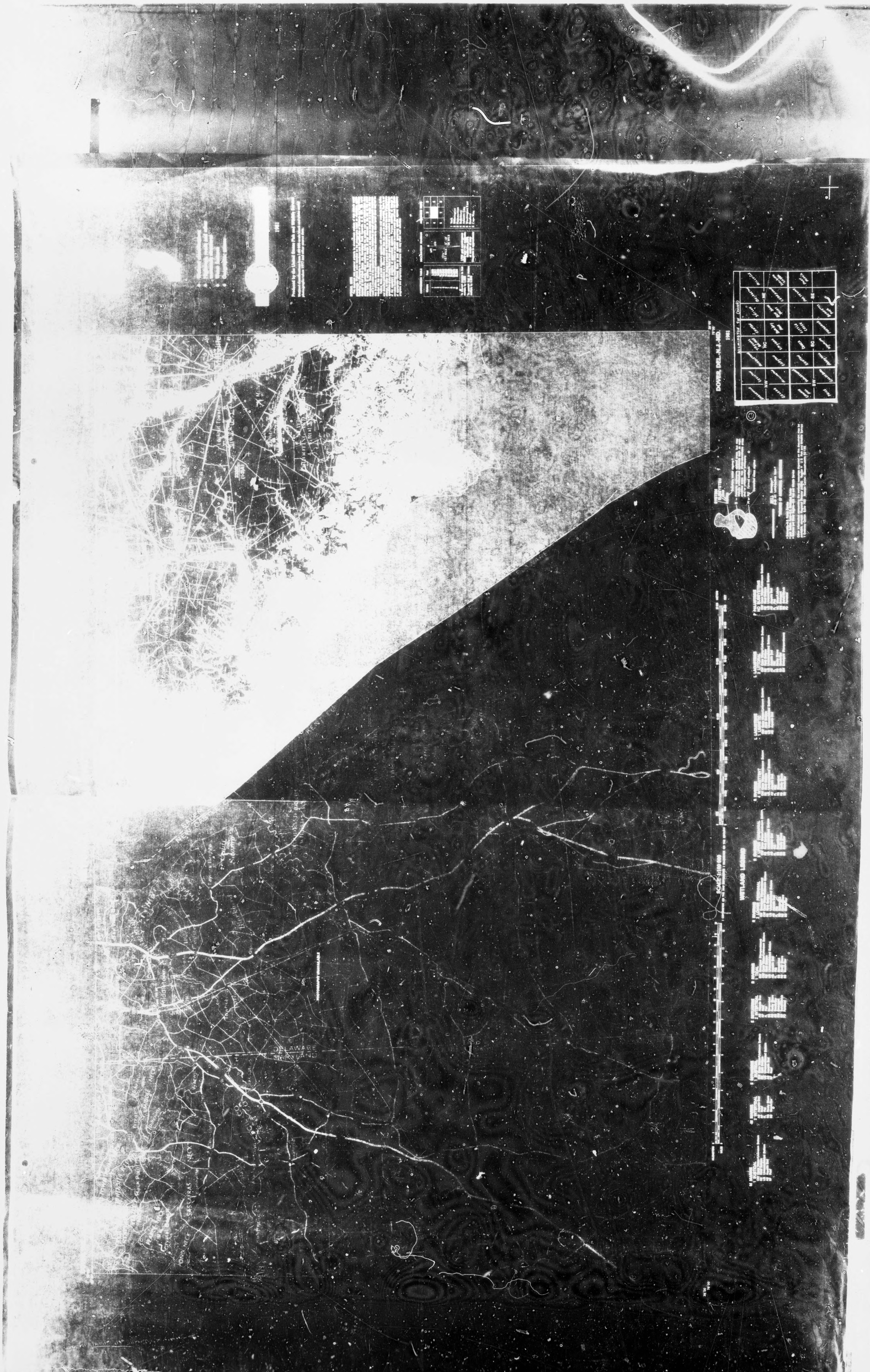

DOVER, DEL.-N.J.-MD.
1961
DELAWARE
MARYLAND
WETLAND MAPPING
SCALE 1:24 000

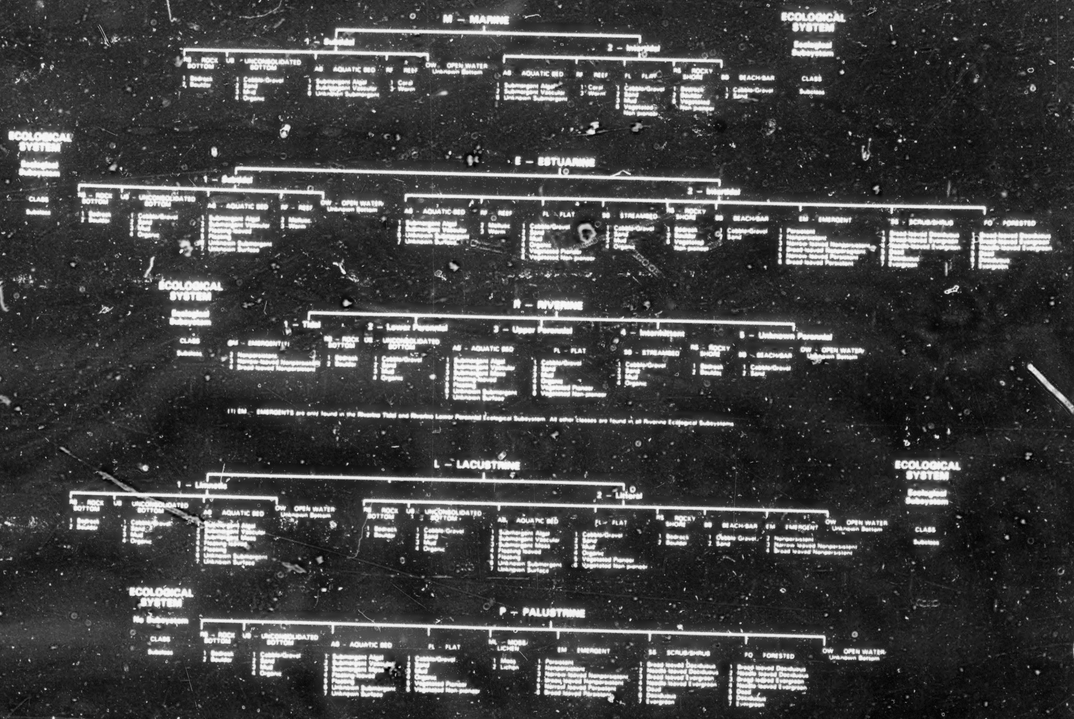
NATIONAL WETLANDS INVENTORY
UNITED STATES DEPARTMENT OF THE INTERIOR

EARLEVILLE, MD.

BOHEMIA
RIVER
ELK
NECK
GROVE NECK
SASSAFRAS
RIVER
Earleville
Cecilton
St Stephens Ch
St Pauls Ch
Veazey Cove
Landing Strip
Old House
Town Point
Arnold
Cobbs
Thackery
Wrights
Crystal Beach
Woodlawn
Constable
Meadow View
Stevenson
Hooks Neck
Pearce
Chrystal
Cemetery
Dam
Ruins
Church
Road
Creek
Cove
Point
Woods
Marsh
Swamp
Pond
Tower
Tank
Gas
Oil
Mine
Quarry
Sand
Gravel
Pit
Levee
Dike
Canal
Ditch
Bridge
Ferry
Trail
Power Line
Pipeline
Railroad
Boundary
Fence
Wall
Building
Cemetery
Church
School
Hospital
Airport
Runway
Helipad
Tank
Silo
Windmill
Water Tower
Gas Station
Oil Well
Mine
Quarry
Sand Pit
Gravel

WETLAND LEGEND

U – Primarily represents upland areas, but may include unclassified wetlands such as man-modified areas, non photo-identifiable areas and/or unintentional omissions.



(1) EM – EMERGENTS are only found in the Rhodes Tidal and Rhodes Lower Perennial Ecological Subsystem. All other classes are found in all Riverine Ecological Subsystems

MODIFYING TERMS

In order to more adequately describe wetland and aquatic habitat one or more of the water regime, water chemistry, soil, or special modifiers may be applied at the class or lower level in the hierarchy. The formed modifier may also be applied to the ecological system.

WATER REGIMES	WATER CHEMISTRY	SOILS	SPECIAL MODIFIERS
Non-Tidal: Permanently Flooded; Intermittently Exposed; Semipermanently Flooded; Seasonally Flooded; Saturated; Temporarily Flooded; Intermittently Flooded; Artificially Flooded Tidal: Permanently Flooded; Regularly Flooded; Irregularly Flooded Intermittently Exposed: Permanently Flooded-Tidal; Intermittently Flooded-Tidal; Artificially Flooded Tidal: Subtidal; Irregularly Exposed; Regularly Flooded; Irregularly Flooded	Coastal Salinity: Hypersaline; Euhaline; Mixohaline (Brackish); Polyhaline; Mesohaline; Oligohaline Inland Salinity: Hypersaline; Euhaline; Mixohaline (Brackish); Polyhaline; Mesohaline; Oligohaline pH Modifiers for all Fresh Water: Acid; Circumneutral; Alkaline	1 Organic 2 Mineral	Excavated; Diked/Impounded Partly Drained/Ditched Farmed Artificial

(1) Information on the water regime modifiers found on this legend, but not found in the classification system, may be obtained from the above listed source.

SPECIAL NOTE

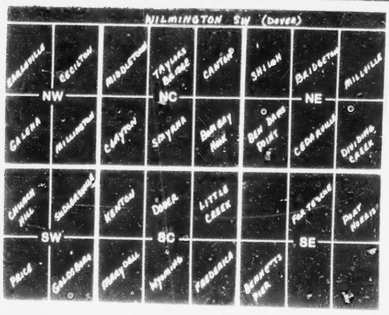
This document was prepared primarily by stereoscopic analyses of high altitude aerial photographs. Wetlands were identified on the photographs based on vegetation, hydrology, and physiography in accordance with the publication entitled Classification of Wetlands and Deepwater Habitats of the United States (Cowardin, Carter, Golet, and LaRoe, et al., 1977). The accompanying typewritten report concerns, during the specific year and season when they were taken. In addition, there is a margin of error inherent in the use of the aerial photographs. Thus, a detailed on-the-ground and historical analysis of a single site may present (1) a revision of the wetland boundaries established through photographic interpretation. In addition, some small wetlands and those obscured by dense forest cover may not be included on this document.

Federal, State and local regulatory agencies with jurisdiction over wetlands may define and delineate wetlands in a different manner than that used in this inventory. There is no attempt, in either the design or products of this inventory, to define the limits of proprietary jurisdiction of any Federal, State or local governments or to establish the geographical limits of the various regulatory programs of government agencies. Persons interested in projects in areas containing inclusions within or adjacent to wetland areas should seek the advice of the various Federal, State or local agencies concerned with land, water regulatory programs and proprietary jurisdictions that may affect such activities.

SYMBOLOGY EXAMPLE

NOTES TO THE USER

- Wetlands which have been field examined are indicated on the map by an asterisk (*).
- Dominance type (either vegetative or sedentary animal) can be added to the map by the interested user.
- Additions or corrections to the wetlands information displayed on this map are solicited. Please forward such information to the address indicated.



NATIONAL WETLANDS INVENTORY

UNITED STATES DEPARTMENT OF THE INTERIOR

CECILTON, MD.-DEL.

WILMINGTON SW
DOVER

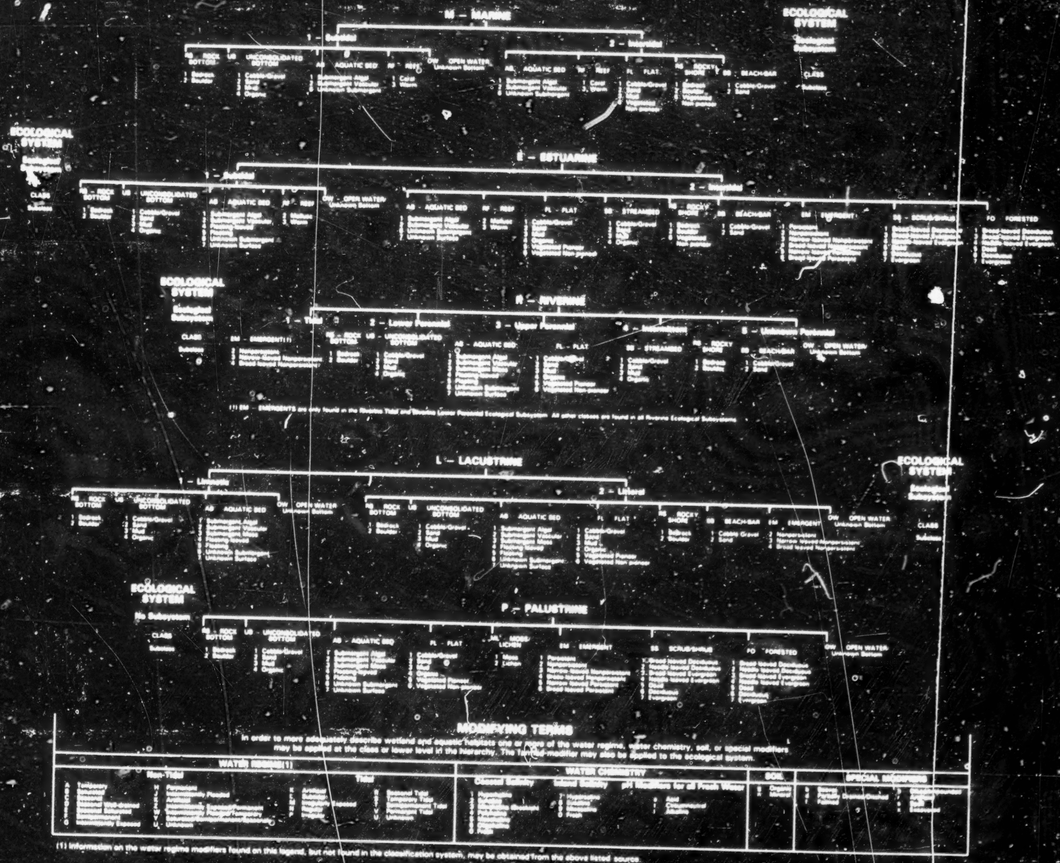
SCALE 1:24000

A/P 302

CECILTON, MD.-DEL.

WETLAND LEGEND

U – Primarily represents upland areas, but may include unclassified wetlands such as man-modified areas, non photo-identifiable areas and/or unintentional omissions.



MODIFYING TERMS

In order to more adequately describe wetland and aquatic habitats one or more of the water regime, water chemistry, soil, or special modifiers may be applied at the class or lower level in the hierarchy. The highest modifier may also be applied to the ecological system.

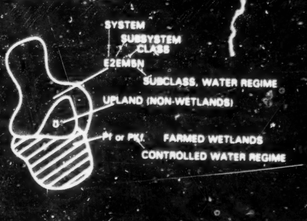
WATER REGIME(1)		WATER CHEMISTRY		SOIL	SPECIAL MODIFIERS
Non-Tidal	Tidal	Coastal Salinity	Inland Salinity	Terms for all Fresh Water	Organic	Special Modifiers

(1) Information on the water regime modifiers found on this legend, but not found in the classification system, may be obtained from the above listed source.

SPECIAL NOTE

This document was prepared primarily by stereoscopic analysis of high altitude aerial photographs. Wetlands were identified on the photographs based on vegetation, visible hydrology and geography in accordance with the "Classification of Wetlands and Deepwater Habitats of the United States" (Cowardin, et al., 1977). This document may depict only the vegetated wetlands and may not depict all wetlands as defined by the 1977 Clean Water Act. For example, some areas with hydric soils and some areas that support only non-vegetated deepwater habitats may not be shown on this map or may be shown as upland. In addition, there is a margin of error inherent in the use of any aerial photographs. Thus, a detailed on the ground examination of any given site may result in a revision of the wetland lines or classifications shown on this map. Some of the wetland areas may also be too small to show at the mapping scale. The accuracy of any mapped wetland boundary is also subject to the quality of the aerial photographs and the skill of the photointerpreter. In addition, some small wetlands may exist in forested areas that are not discernible on these photographs due to the darkness of the forest canopy. Certain areas may not be mapped because of their small size. Due to these limitations, the maps may not depict all wetlands subject to regulatory jurisdiction. Similarly, unmapped areas may contain wetlands. Federal, State and local regulatory agencies with jurisdiction over wetlands may define and delineate wetlands in a manner different than that used in this inventory. There is no attempt, in either the design or products of this inventory, to define the limits of proprietary jurisdiction of any Federal, State or local government or to establish the geographical scope of the regulatory programs of government agencies. Persons intending to undertake activities involving modifications within or adjacent to wetland areas should seek the advice of appropriate Federal, State or local agencies concerning specified agency wetlands delineation and proprietary jurisdictions that may affect such activities.

SYMBOLOGY EXAMPLE



NOTES TO THE USER

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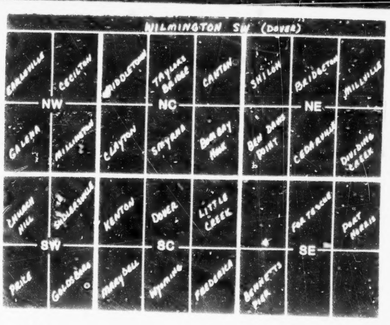
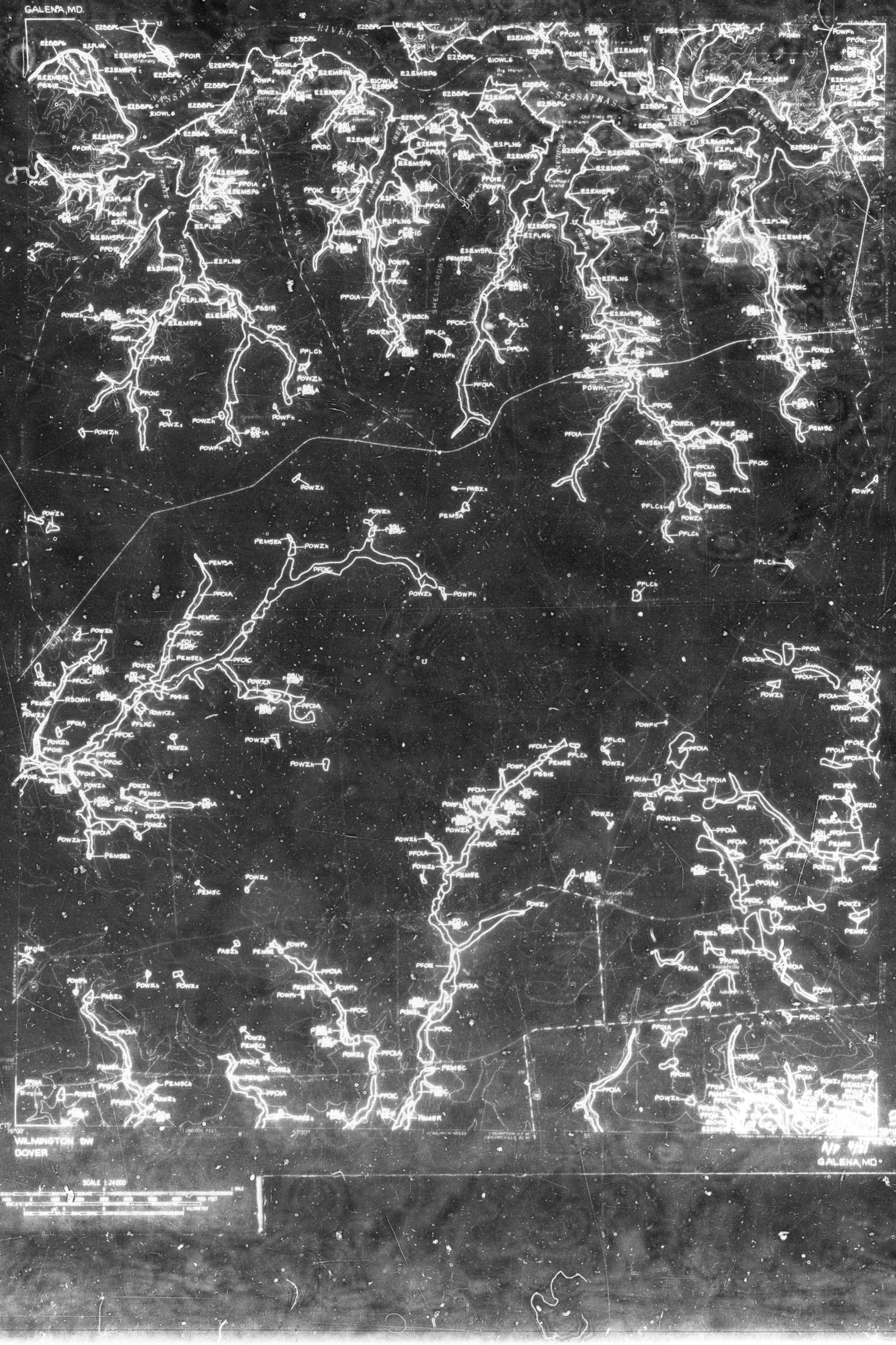
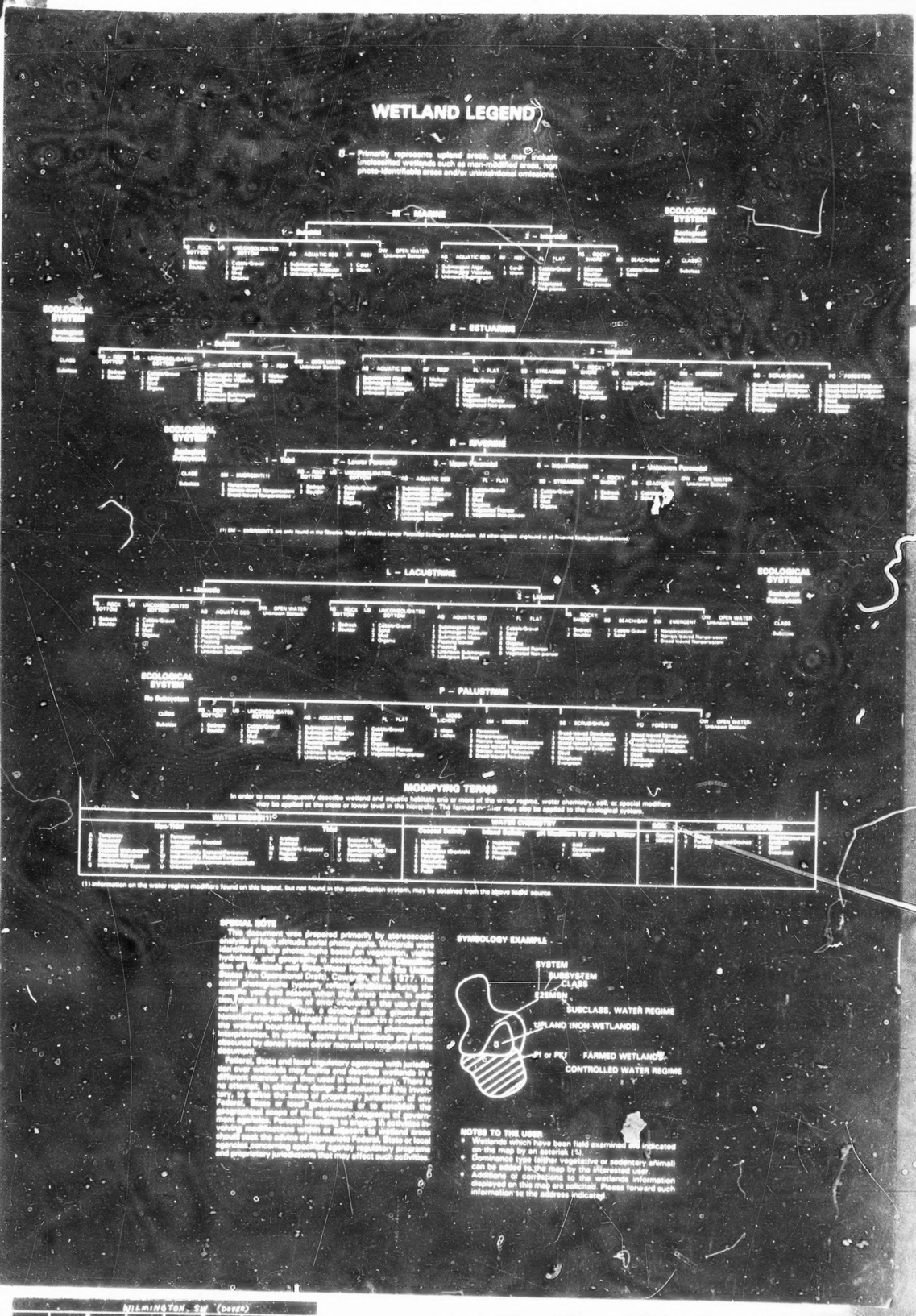
- Dominance types (either vegetative or sedentary animal) can be added to the map by the interested user.
- Additions or corrections to the wetlands information displayed on this map are solicited. Please forward such information to the address indicated.

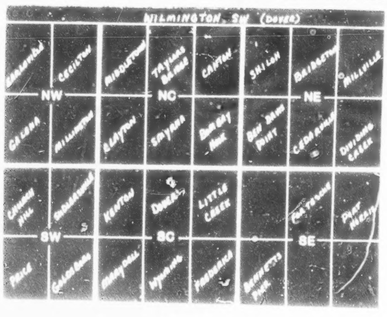


NATIONAL WETLANDS INVENTORY

UNITED STATES DEPARTMENT OF THE INTERIOR




WETLAND LEGEND
M – MARINE
E – ESTUARINE
R – RIVERINE
L – LACUSTRINE
P – PALUSTRINE
MODIFYING TERMS
SPECIAL NOTE
SYMBOLOGY EXAMPLES
NOTES TO THE USER


WILMINGTON, SW (DOVER)
NW
NC
NE
SW
SC
SE

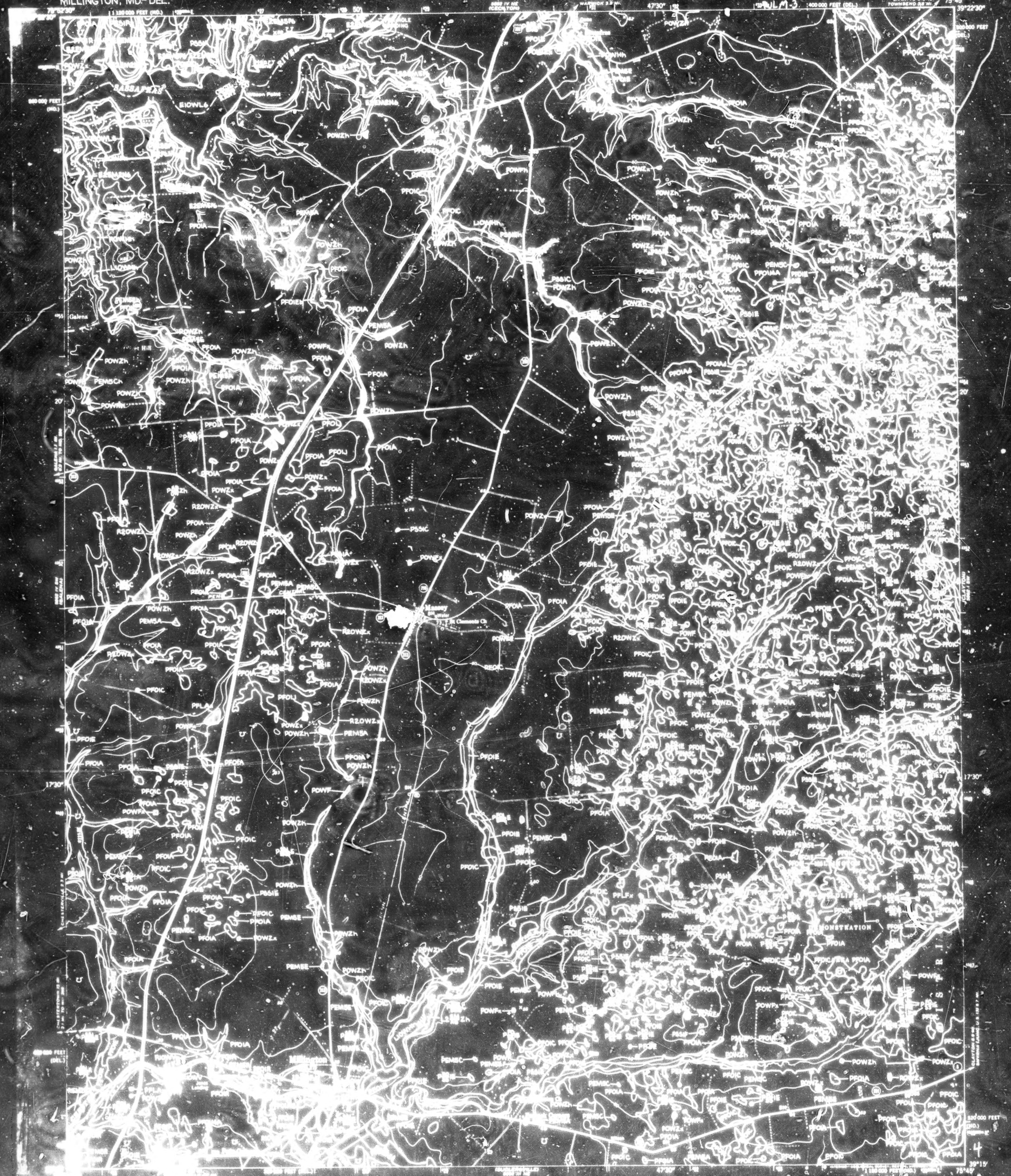
AF 1408AC-b

NATIONAL WETLANDS INVENTORY

UNITED STATES DEPARTMENT OF THE INTERIOR

MILLINGTON, MD.-DEL.

WLM-3



WILMINGTON SW-
DOVER

SCALE 1:24 000

4

MILLINGTON, MD.-DEL.

WETLAND LEGEND

0 – Primarily represents upland areas, but may include unclassified wetlands such as man-modified areas, non-photo-identifiable areas and/or unintentional omissions.

(1) EM – EMERGENTS are only found in the Riverine Tidal and Riverine Lower Perennial Ecological Subsystem. All other classes are found in all Riverine Ecological Subsystems.

MODIFYING TERMS

In order to more adequately describe wetland and aquatic habitats one or more of the water regime, water chemistry, soil, or special modifiers may be applied at the class or lower level in the hierarchy. The farmed modifier may also be applied to the ecological system.

WATER REGIMES(1)						WATER CHEMISTRY				SOIL	SPECIAL MODIFIERS
Non-Tidal		Tidal				Coastal Waters	Inland Waters	pH Modifiers for all Fresh Water			
Permanently Flooded	Intermittently Exposed	Permanently Flooded	Intermittently Exposed	Semipermanently Flooded	Seasonally Flooded	Hypersaline	Eusaline	Hyperhaline	Dystrophic	Organic	Beaver Partially Drained/Ditched
Intermittently Flooded	Artificially Flooded	Regularly Flooded	Irregularly Flooded	Temporarily Flooded	Saturated	Polyhaline	Mesohaline	Oligohaline	Fresh		Diked/Impounded
A Modifier for Tidal Only											Artificial

(1) Information on the water regime modifiers listed on this legend, but not found in the classification system, may be obtained from the above listed source.

SPECIAL NOTE

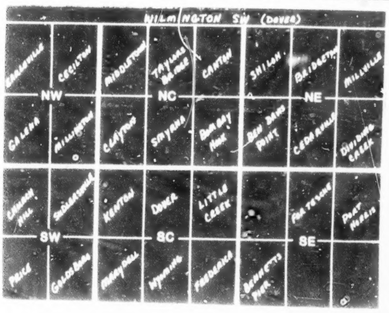
This set of maps was prepared primarily by stereoscopic analysis of high altitude aerial photography. Wetlands were identified on the photographs based on vegetation, visible hydrology and geography in accordance with "Classification of Wetlands and Deepwater Habitats of the United States" (Cowardin, et al, 1977). This publication is the result of several years of literature review and development work and extensive field testing. In addition, extensive ground truthing was conducted during the photo interpretation effort. Nevertheless, there is a margin of error inherent in the use of aerial photography. Thus, a determination as to the exact location of wetlands on the ground will require on-site inspection which may result in some modification of the wetland boundaries or classification of certain areas. In addition, some small wetlands may have been unavoidably omitted during the photo interpretation process. Also, forested cover may not be included on the drier end of the forested wetland classes.

Federal, State and local regulatory agencies with jurisdiction over wetlands may define wetlands differently than this inventory. There is no assumption that wetlands mapped on this inventory will necessarily be regulated by any government agency. For example, the Food Security Act of 1985 may define wetlands for the purpose of agricultural land management programs differently than this inventory. Persons proposing to undertake activities in wetlands may be required by law to obtain permits, and should contact appropriate local, State, and Federal agencies regarding specific proposed projects to determine whether regulatory programs pertaining to wetlands may affect their proposed activities.

SYMBOLOGY EXAMPLE

NOTES TO THE USER

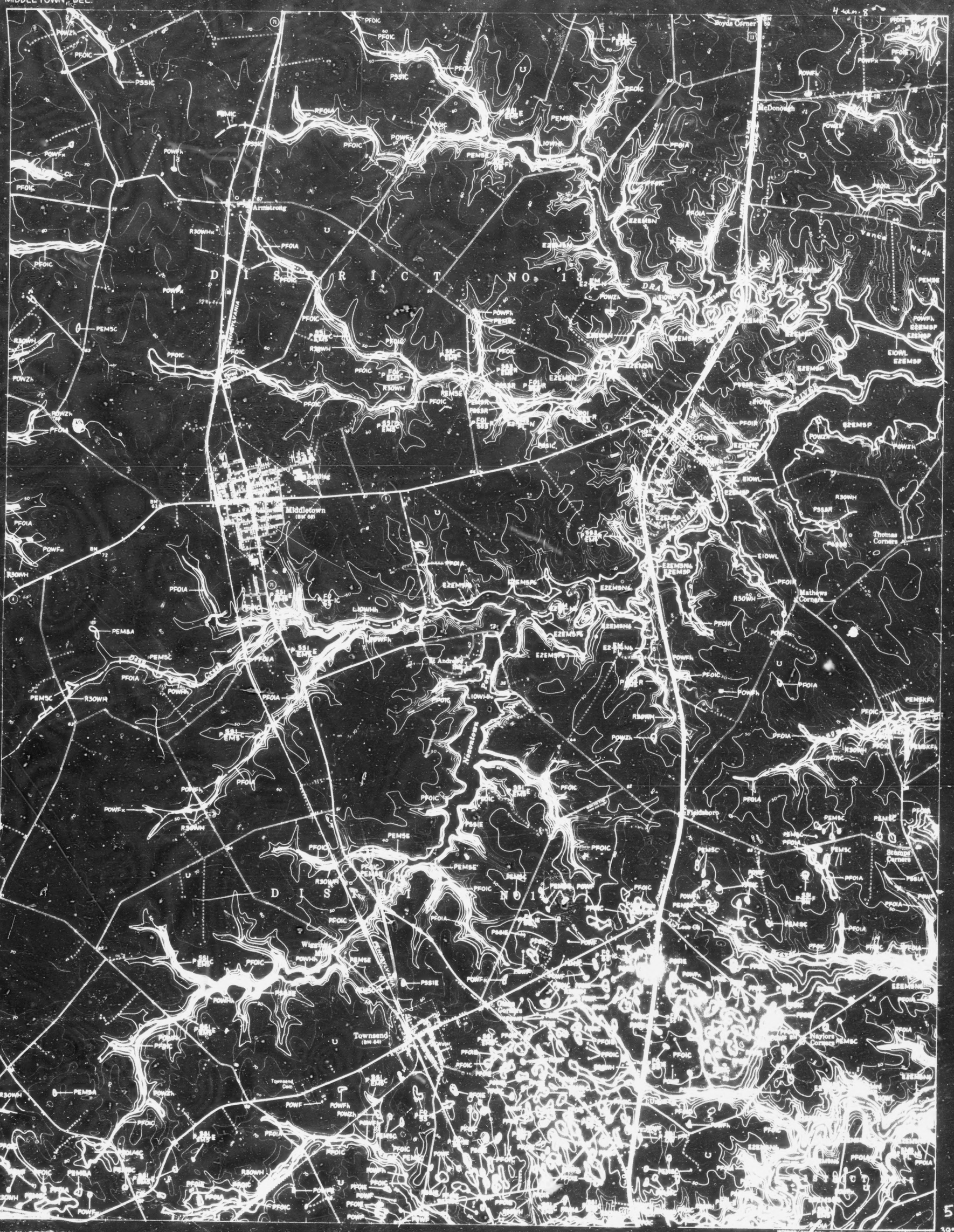
- Wetlands which have been field examined are indicated on the map by an asterisk (*).
- Dominance type (either vegetative or sedentary animal) can be added to the map by the interested user.
- Additions or corrections to the wetlands information displayed on this map are solicited. Please forward such information to the address indicated.



NATIONAL WETLANDS INVENTORY

UNITED STATES DEPARTMENT OF THE INTERIOR

MIDDLETOWN, DEL.


DISTRICT NO. 13
DISTRICT NO. 12
Middletown
(BM 60)
Townsend
(BM 84)
Armstrong
Boyds Corner
McDonough
Vance
Vocis
Thomas Corners
Mathews Corners
Fieldsboro
Stemps Corners
Naylors Corners
St Andrews
Wiggins
Townsend Cem
Delaware
Pennsylvania
Maryland
PFO1C
PFO1A
PEM5C
PEM5A
PEM5E
PSS1C
PSS1E
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PEMBA
PEMBE
PEMBF
PEMBH
PEMBKFh
PEMBSP
PEMSP
PEMSC
PEMSE
PEMSA
PEMSKFh
PEMSKFx
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PFO1F
PSS1R
PSS1H
PSS1F
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PSS1SA
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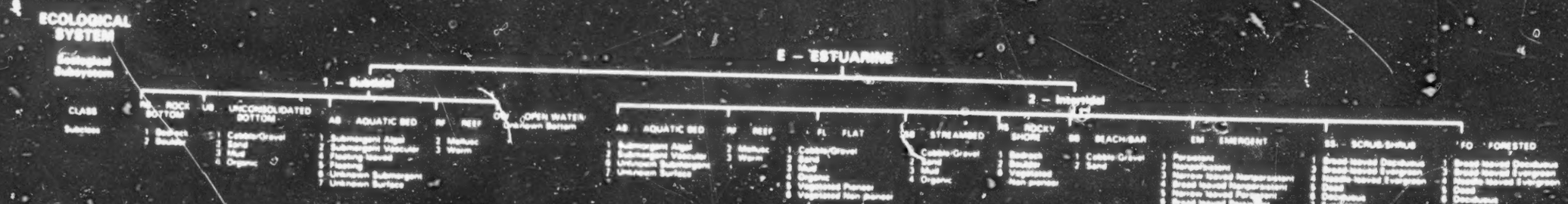
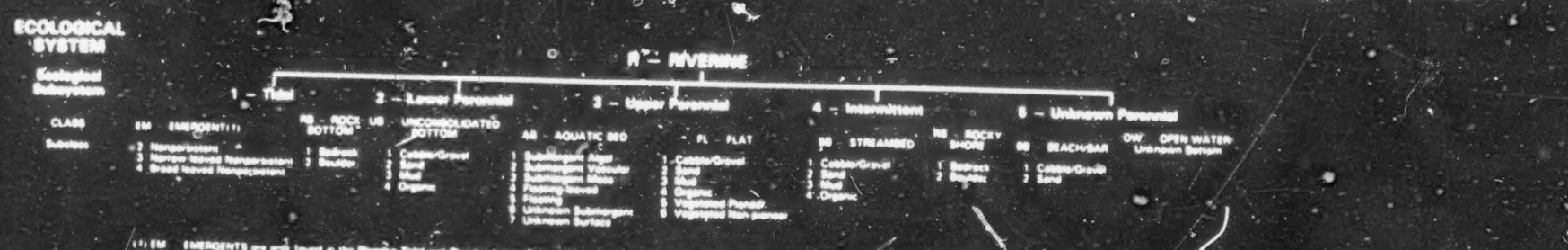
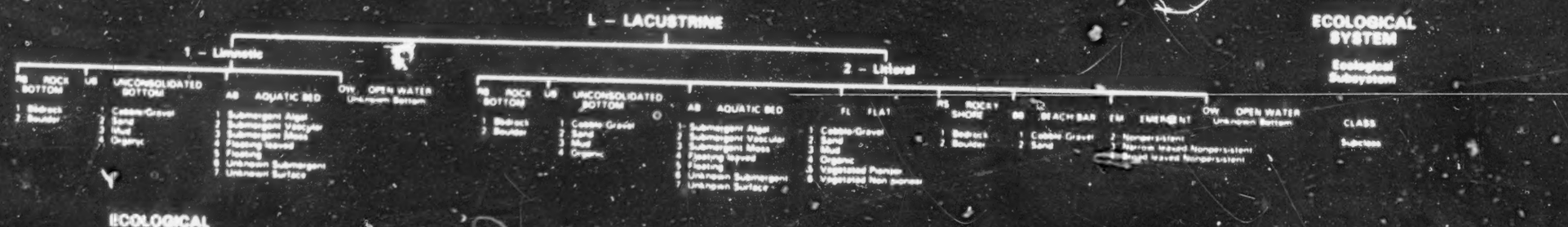
WETLAND LEGEND

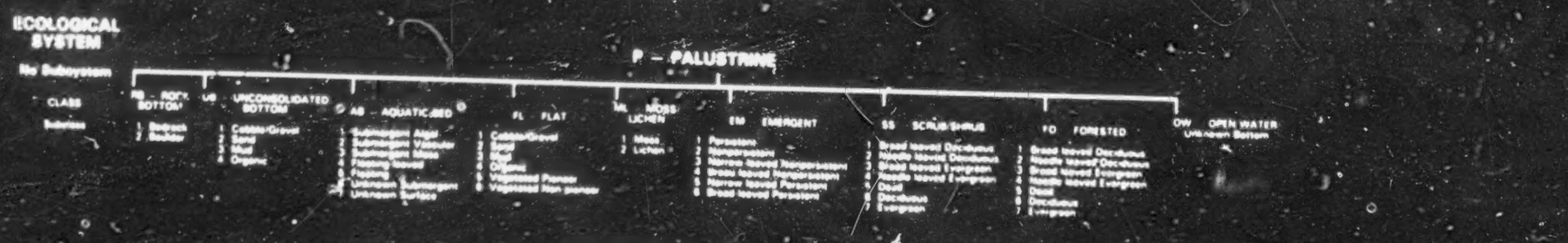
B – Primarily represents upland areas, but may include unclassified wetlands such as man-modified areas, non photo-identifiable areas and/or unintentional omissions.





(1) EM EMERGENTS are only found in the Riverine Tidal and Riverine Lower Perennial Ecological Subsystem. All other classes are found in all Riverine Ecological Subsystems.





MODIFYING TERMS

In order to more adequately describe wetland and aquatic habitats one or more of the water regime, water chemistry, soil, or special modifiers may be applied at the class or lower level in the hierarchy. The farmed modifier may also be applied to the ecological system.

WATER REGIME(1)		WATER CHEMISTRY		SOIL	SPECIAL MODIFIERS
Non-Tidal	Tidal	General Salinity	pH Modifiers for all Fresh Water		
A Temporary B Saturated C Seasonal D Seasonal/Well-drained E Artificially Flooded H Permanently Flooded J Intermittently Exposed K Artificial R Semipermanent/Permanent V Intermittently Flooded/Temporary Y Saturated/Semipermanent/Permanent	F Permanently Flooded G Intermittently Exposed/Permanent J Intermittently Exposed K Artificial P Regularly Flooded R Seasonal T Tidal V Irregularly Exposed W Irregular U Unknown	Hypersaline Euhaline Mixosaline Mixohaline (Brackish) Polyhaline Mesohaline Oligohaline Fresh	Acid Circumneutral Alkaline	A Organic B Mineral	1 Beaver 2 Partially Drained/Ditched 3 Farmed 4 Diked/Impounded 5 Artificial 6 Excavated

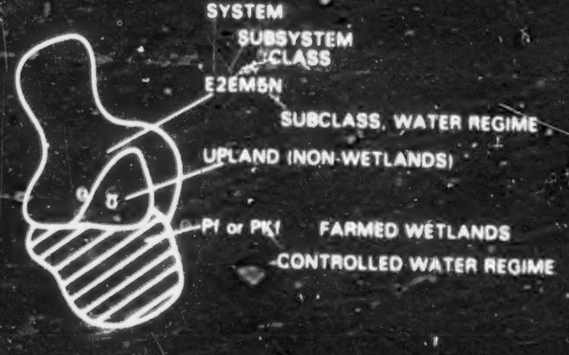
(1) Information on the water regime modifiers found on this legend, but not found in the classification system, may be obtained from the above listed source.

SPECIAL NOTE

This document was prepared primarily by stereoscopic analysis of high altitude aerial photographs. Wetlands were identified on the photographs based on vegetation, visible hydrology, and geography in accordance with Classification of Wetlands and Deep-Water Habitats of the United States (An Operational Draft), Cowardin, et al, 1977. The aerial photographs typically reflect conditions during the specific year and season when they were taken. In addition, there is a margin of error inherent in the use of the aerial photographs. Thus, a detailed on the ground and historical analysis of a single site may result in a revision of the wetland boundaries established through photographic interpretation. In addition, some small wetlands and those obscured by dense forest cover may not be included on this document.

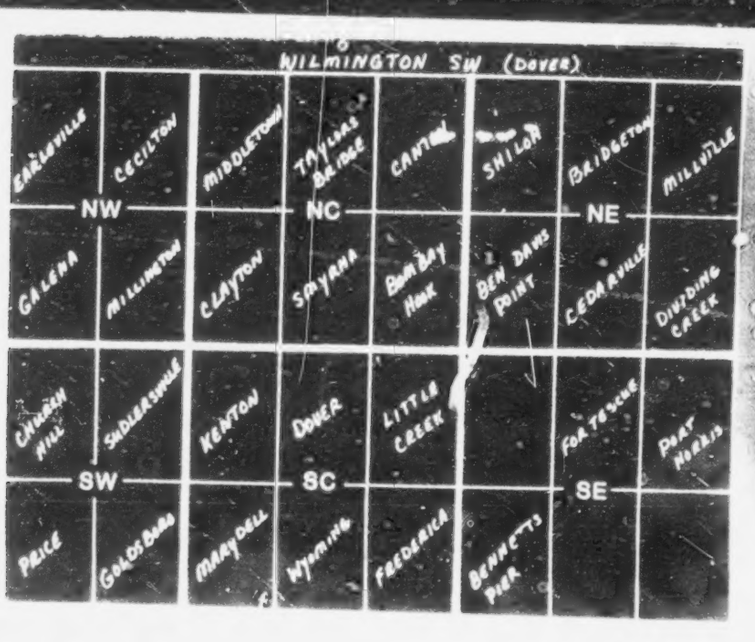
Federal, State and local regulatory agencies with jurisdiction over wetlands may define and describe wetlands in a different manner than that used in this inventory. There is no attempt, in either the design or products of this inventory, to define the limits of proprietary jurisdiction of any Federal, State or local government or to establish the geographical scope of the regulatory programs of government agencies. Persons intending to engage in activities involving modifications within or adjacent to wetland areas should seek the advice of appropriate Federal, State or local agencies concerning specified agency regulatory programs and proprietary jurisdictions that may affect such activities.

SYMBOLOGY EXAMPLE



NOTES TO THE USER

- Wetlands which have been field examined are indicated on the map by an asterisk (.)
- Dominance type (either vegetative or sedentary animal) can be added to the map by the interested user.
- Additions or corrections to the wetlands information displayed on this map are solicited. Please forward such information to the address indicated.



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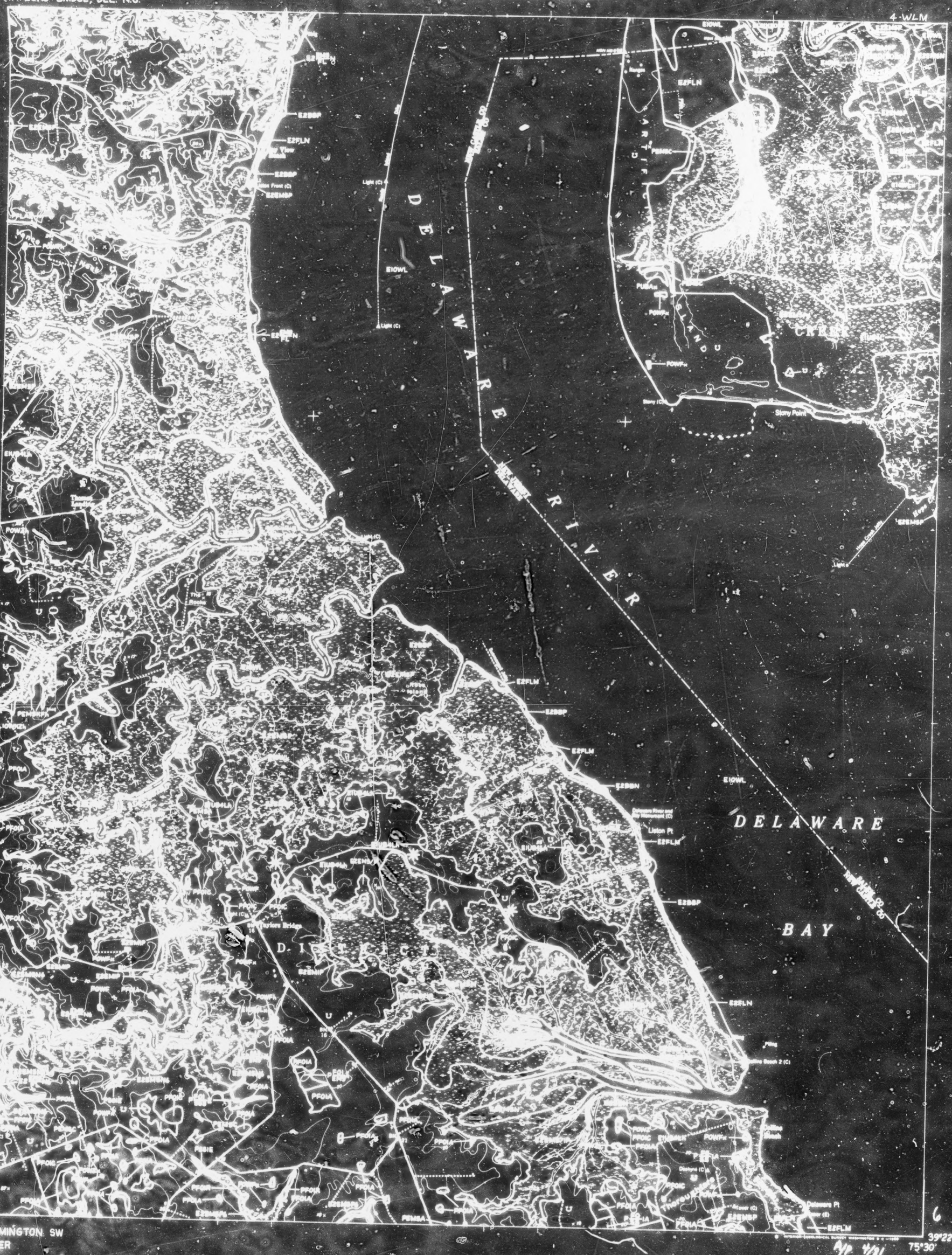
NATIONAL WETLANDS INVENTORY

UNITED STATES DEPARTMENT OF THE INTERIOR

TAYLORS BRIDGE, DEL.-N.J.

4-WLM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Creek
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Marsh
Swamp
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Channel
Boundary
Intermittent Stream
Perennial Stream
Canal
Levee
Dam
Road
Railroad
Bridge
Building
Cemetery
Church
Tank
Pipeline
Power Transmission Line
Spoil Area
Sand Pit
Gravel Pit
Mine
Quarry
Landfill
Dredged Area
Excavated
Diked
Partly Drained
Artificial
Rock Outcrop
Rock Bottom
Unconsolidated Bottom
Aquatic Bed
Reef
Streambed
Open Water
Farmed
Partly Farmed
Scrub-Shrub
Forested
Persistent
Nonpersistent
Broad-Leaved Deciduous
Needle-Leaved Deciduous
Broad-Leaved Evergreen
Needle-Leaved Evergreen
Dead
Deciduous
Evergreen
Temporarily Flooded
Saturated
Seasonally Flooded
Semipermanently Flooded
Intermittently Exposed
Permanently Flooded
Diked/Impounded
Excavated
Partly Vegetated
Rubble
Cobble-Gravel
Sand
Mud
Organic
Aquatic
Emergent
Persistent
Nonpersistent
Submergent
Floating-Leaved
Moss-Lichen
Unknown Perennial
Unknown Vegetated
Unknown Water Regime
Unknown Substrate
Unknown Subclass
Unknown Class
Unknown Type
Unknown Modifier
Unknown Water Body
Unknown Wetland
Unknown Deepwater
Unknown Upland
Unknown Riverine
Unknown Lacustrine
Unknown Palustrine
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Unknown Marine
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Unknown Vegetation

WETLAND LEGEND

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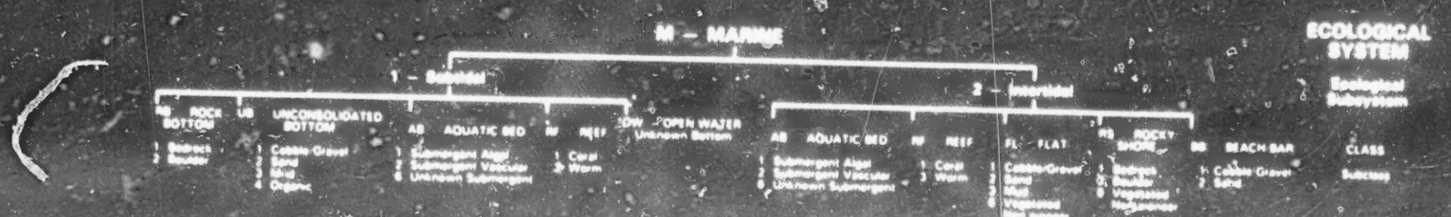

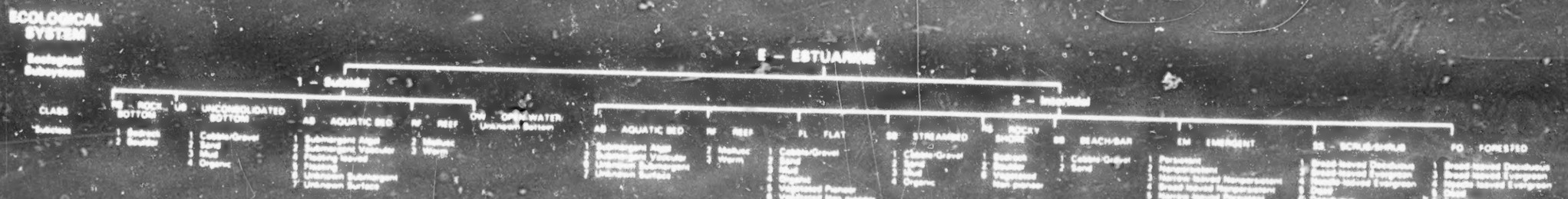

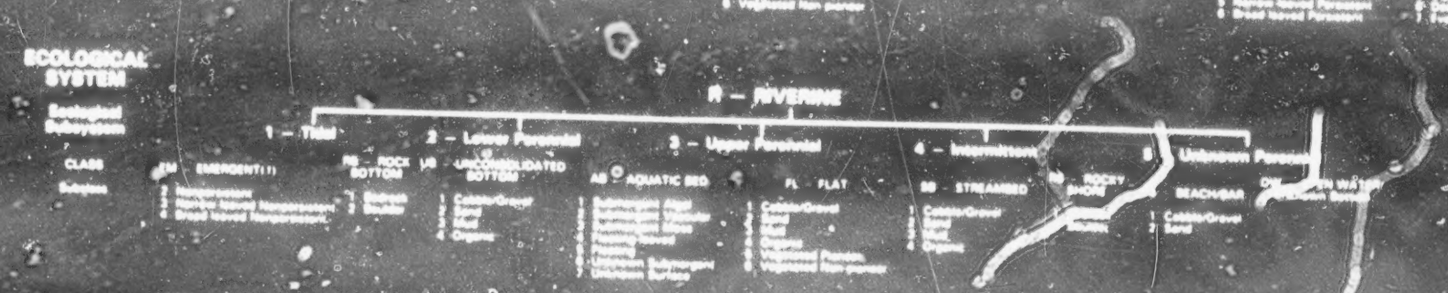

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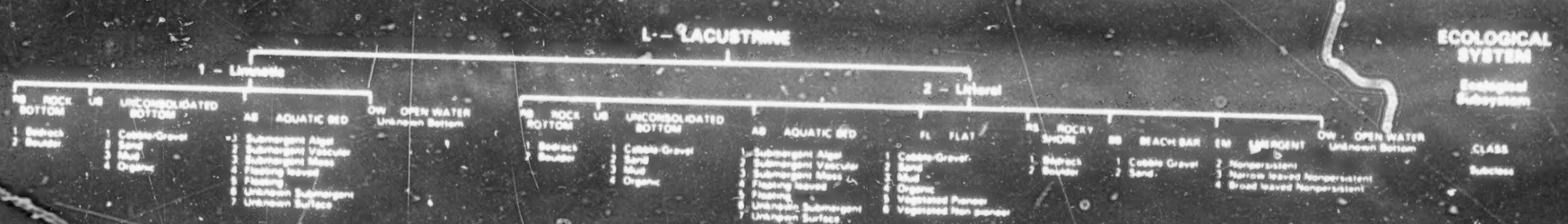
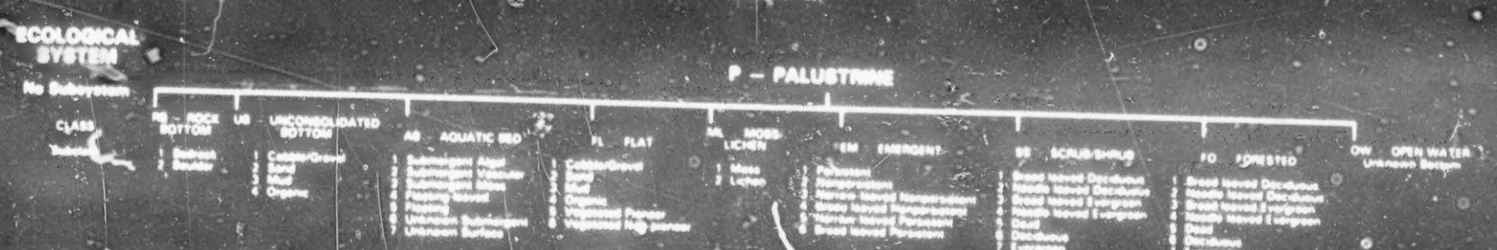




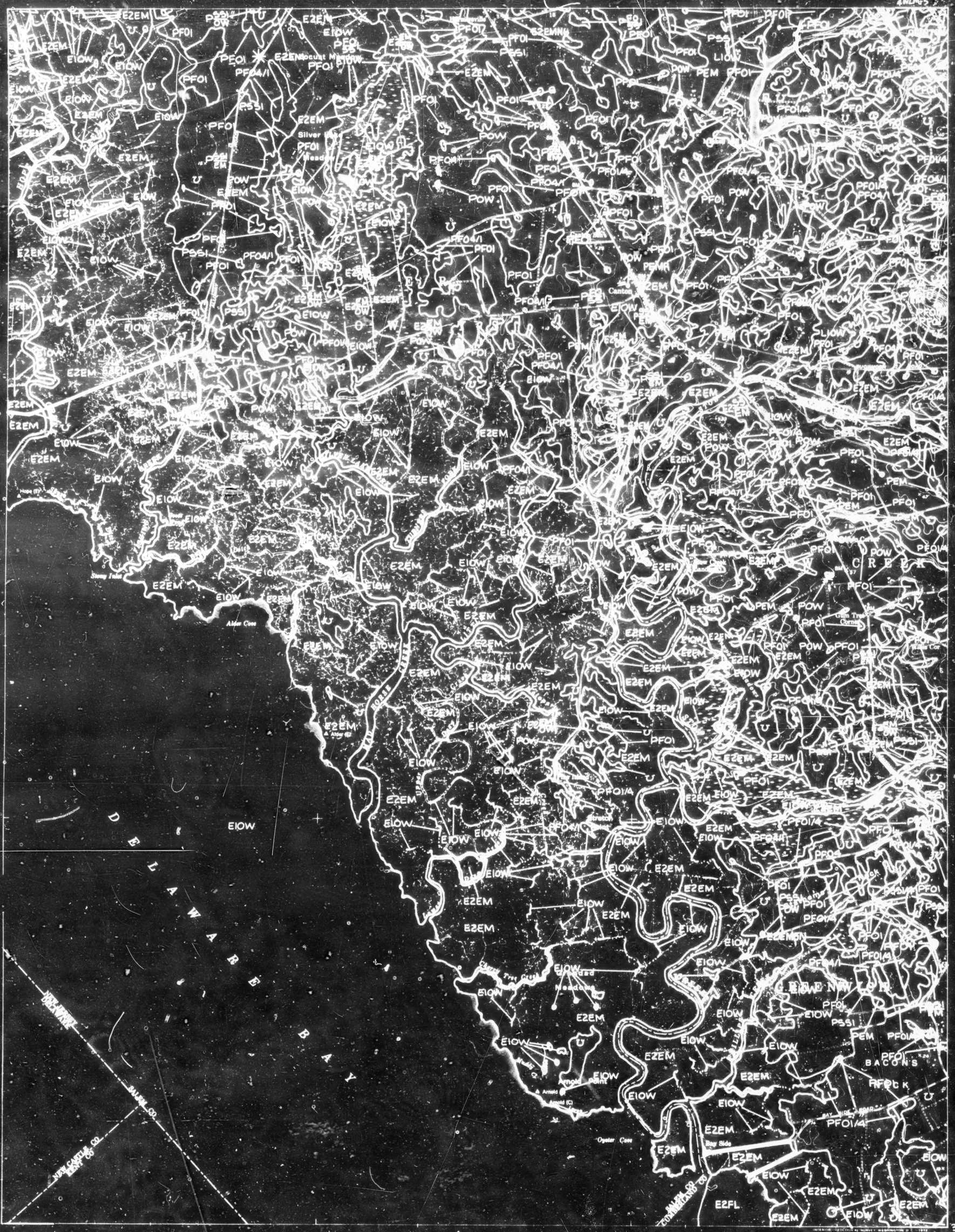
MODIFYING TERMS

In order to more adequately describe wetland and aquatic habitats one or more of the water regime, water chemistry, soil, or special modifiers may be applied at the class or lower level in the hierarchy. The farmed modifier may also be applied to the ecological system.

| WATER REGIME(1) | | |

NATIONAL WETLANDS INVENTORY

UNITED STATES DEPARTMENT OF THE INTERIOR



WILMINGTON SW
DOVER

SCALE 1:24,000

A/P 3/77

39°22'30"
75°22'30"

CANTON, N.J.–DEL.

WETLAND LEGEND

U – Primarily represents upland areas, but may include unclassified wetlands such as man-modified areas, non-photo-identifiable areas and/or unintentional omissions.

M – MARINE

1 – Subtidal

RB ROCK BOTTOM: 1 Bedrock, 2 Boulder	UB UNCONSOLIDATED BOTTOM: 1 Cobble-Gravel, 2 Sand, 3 Mud, 4 Organic	AB AQUATIC BED: 1 Submergent Algal, 2 Submergent Vascular, 6 Unknown Submergent	RF REEF: 3 Coral, 3 Worm	OW OPEN WATER: Unknown Bottom	

2 – Intertidal

AB AQUATIC BED: 1 Submergent Algal, 2 Submergent Vascular, 6 Unknown Submergent	RF REEF: 3 Coral, 3 Worm	FL FLAT: 1 Cobble-Gravel, 2 Sand, 3 Mud, 4 Organic, 5 Vegetated Pioneer, 6 Vegetated Non-pioneer	RS ROCKY SHORE: 1 Bedrock, 2 Boulder, 5 Vegetated Non-pioneer	BB BEACH-BAR: 1 Cobble-Gravel, 2 Sand	ECOLOGICAL SYSTEM: Ecological Subsystem	CLASS: Subclass	

E – ESTUARINE

1 – Subtidal

RB ROCK BOTTOM: 1 Bedrock, 2 Boulder	UB UNCONSOLIDATED BOTTOM: 1 Cobble-Gravel, 2 Sand, 3 Mud, 4 Organic	AB AQUATIC BED: 1 Submergent Algal, 2 Submergent Vascular, 3 Floating-leaved, 4 Moss, 5 Floating, 6 Unknown Submergent, 7 Unknown Surface	RF REEF: 3 Worm	OW OPEN WATER: Unknown Bottom

2 – Intertidal

AB AQUATIC BED: 1 Submergent Algal, 2 Submergent Vascular, 7 Unknown Surface	RF REEF: 3 Worm	FL FLAT: 1 Cobble-Gravel, 2 Sand, 3 Mud, 4 Organic, 5 Vegetated Pioneer, 6 Vegetated Non-pioneer	SB STREAMBED: 1 Cobble-Gravel, 2 Sand, 3 Mud, 4 Organic	RS ROCKY SHORE: 1 Bedrock, 2 Boulder, 5 Vegetated Non-pioneer	BB BEACH-BAR: 1 Cobble-Gravel, 2 Sand	EM – EMERGENT: Persistent, Narrow-leaved Persistent, Broad-leaved Persistent, Narrow-leaved Non-persistent, Broad-leaved Non-persistent	SS – SCRUB-SHRUB: Broad-leaved Deciduous, Needle-leaved Evergreen, Broad-leaved Evergreen, Dead, Deciduous, Evergreen	ECOLOGICAL SYSTEM: Ecological Subsystem	CLASS: Subclass

R – RIVERINE

1 – Tidal | 2 – Lower Perennial | 3 – Upper Perennial | 4 – Intermittent | 5 – Unknown Perennial

CLASS: Subclass	EM – EMERGENT(1): 1 Nonpersistent, 2 Narrow-leaved Nonpersistent, 3 Broad-leaved Nonpersistent	RB ROCK BOTTOM: 1 Bedrock, 2 Boulder	UB UNCONSOLIDATED BOTTOM: 1 Cobble-Gravel, 2 Sand, 3 Mud, 4 Organic	AB AQUATIC BED: 1 Submergent Algal, 2 Submergent Vascular, 3 Submergent Moss, 4 Floating-leaved, 5 Floating, 6 Unknown Submergent, 7 Unknown Surface	FL FLAT: 1 Cobble-Gravel, 2 Sand, 3 Mud, 4 Organic, 5 Vegetated Pioneer, 6 Vegetated Non-pioneer	SB STREAMBED: 1 Cobble-Gravel, 2 Sand, 3 Mud, 4 Organic	RS ROCKY SHORE: 1 Bedrock, 2 Boulder	BB BEACH-BAR: 1 Cobble-Gravel, 2 Sand	OW OPEN WATER: Unknown Bottom	

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L – LACUSTRINE

1 – Limnetic

RB ROCK BOTTOM: 1 Bedrock, 2 Boulder	UB UNCONSOLIDATED BOTTOM: 1 Cobble-Gravel, 2 Sand, 3 Mud, 4 Organic	AB AQUATIC BED: 1 Submergent Algal, 2 Submergent Vascular, 3 Submergent Moss, 4 Floating-leaved, 5 Floating, 6 Unknown Submergent, 7 Unknown Surface	OW OPEN WATER: Unknown Bottom

2 – Littoral

RB ROCK BOTTOM: 1 Bedrock, 2 Boulder	UB UNCONSOLIDATED BOTTOM: 1 Cobble-Gravel, 2 Sand, 3 Mud, 4 Organic	AB AQUATIC BED: 1 Submergent Algal, 2 Submergent Vascular, 3 Submergent Moss, 4 Floating-leaved, 5 Floating, 6 Unknown Submergent, 7 Unknown Surface	FL FLAT: 1 Cobble-Gravel, 2 Sand, 3 Mud, 4 Organic, 5 Vegetated Pioneer, 6 Vegetated Non-pioneer	RS ROCKY SHORE: 1 Bedrock, 2 Boulder	BB BEACH-BAR: 1 Cobble-Gravel, 2 Sand	EM EMERGENT: 1 Nonpersistent, 2 Narrow-leaved Nonpersistent, 3 Broad-leaved Nonpersistent	OW OPEN WATER: Unknown Bottom	ECOLOGICAL SYSTEM: Ecological Subsystem; CLASS: Subclass

P – PALUSTRINE

RB ROCK BOTTOM: 1 Bedrock, 2 Boulder	UB UNCONSOLIDATED BOTTOM: 1 Cobble-Gravel, 2 Sand, 3 Mud, 4 Organic	AB AQUATIC BED: 1 Submergent Algal, 2 Submergent Vascular, 3 Submergent Moss, 4 Floating-leaved, 5 Floating, 6 Unknown Submergent, 7 Unknown Surface	FL FLAT: 1 Cobble-Gravel, 2 Sand, 3 Mud, 4 Organic, 5 Vegetated Pioneer, 6 Vegetated Non-pioneer	ML MOSS-LICHEN: 1 Moss, 2 Lichen	EM EMERGENT: 1 Persistent, 2 Nonpersistent, 3 Narrow-leaved Nonpersistent, 4 Broad-leaved Nonpersistent, 5 Narrow-leaved Persistent, 6 Broad-leaved Persistent	SS SCRUB-SHRUB: 1 Broad-leaved Deciduous, 2 Needle-leaved Deciduous, 3 Broad-leaved Evergreen, 4 Needle-leaved Evergreen, 5 Dead, 6 Deciduous, 7 Evergreen	FO FORESTED: 1 Broad-leaved Deciduous, 2 Needle-leaved Deciduous, 3 Broad-leaved Evergreen, 4 Needle-leaved Evergreen, 5 Dead, 6 Deciduous, 7 Evergreen	OW OPEN WATER: Unknown Bottom

ECOLOGICAL SYSTEM: Ecological Subsystem; CLASS: Subclass

MODIFYING TERMS

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WATER REGIME(1):

Non-Tidal: A Temporary; B Saturated; C Seasonal; D Seasonal Well-drained; E Artificial; F Intermittently Exposed

Tidal: G Permanent; H Permanently Flooded; J Artificial; K Intermittently Exposed/Permanent; L Intermittently Flooded/Temporary; M Permanently Flooded-Tidal/Subtidal; N Intermittently Exposed/Semipermanent/Seasonal; P Regularly Flooded; Q Irregularly Flooded; R Seasonal Tidal; S Temporary Tidal; T Permanently Flooded-Tidal; U Intermittently Flooded-Tidal; V Artificial; Z Unknown

WATER CHEMISTRY:

Coastal Salinity: 1 Hypersaline, 2 Euhaline, 3 Mixohaline (Brackish), 4 Polyhaline, 5 Mesohaline, 6 Oligohaline, 7 Fresh

Inland Salinity: 8 Hyperhaline, 9 Eusaline, 0 Mixosaline, F Fresh

pH Modifiers for all Fresh Water: A Acid, C Circumneutral, I Alkaline

SOIL: 1 Organic, 2 Mineral

SPECIAL MODIFIERS: B Beaver, D Partially Drained/Ditched, F Farmed, H Diked/Impounded, R Artificial, S Spoil, X Excavated

(1) Information on the water regime modifiers found on this legend, but not found in the classification system, may be obtained from the above listed source.

SPECIAL NOTE

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SYMBOLOGY EXAMPLE

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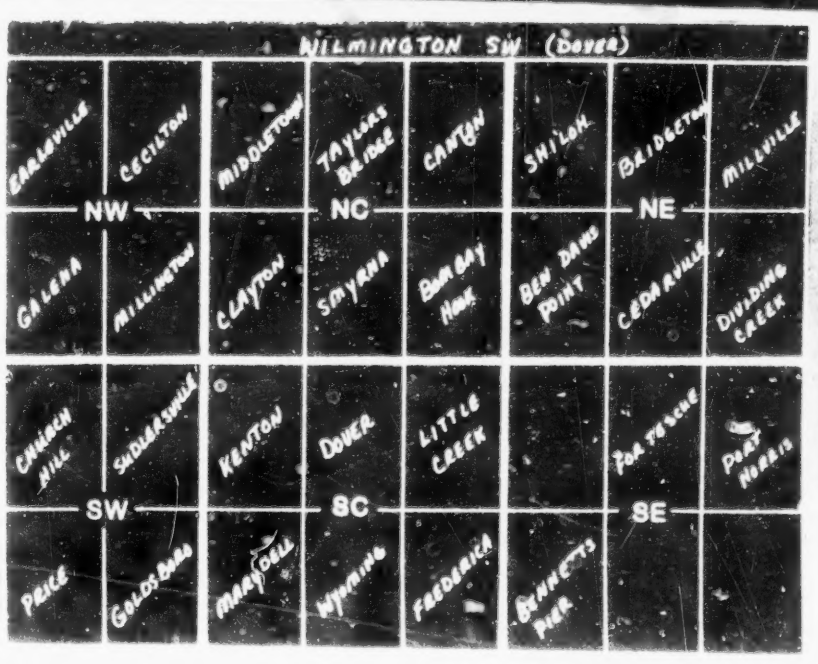
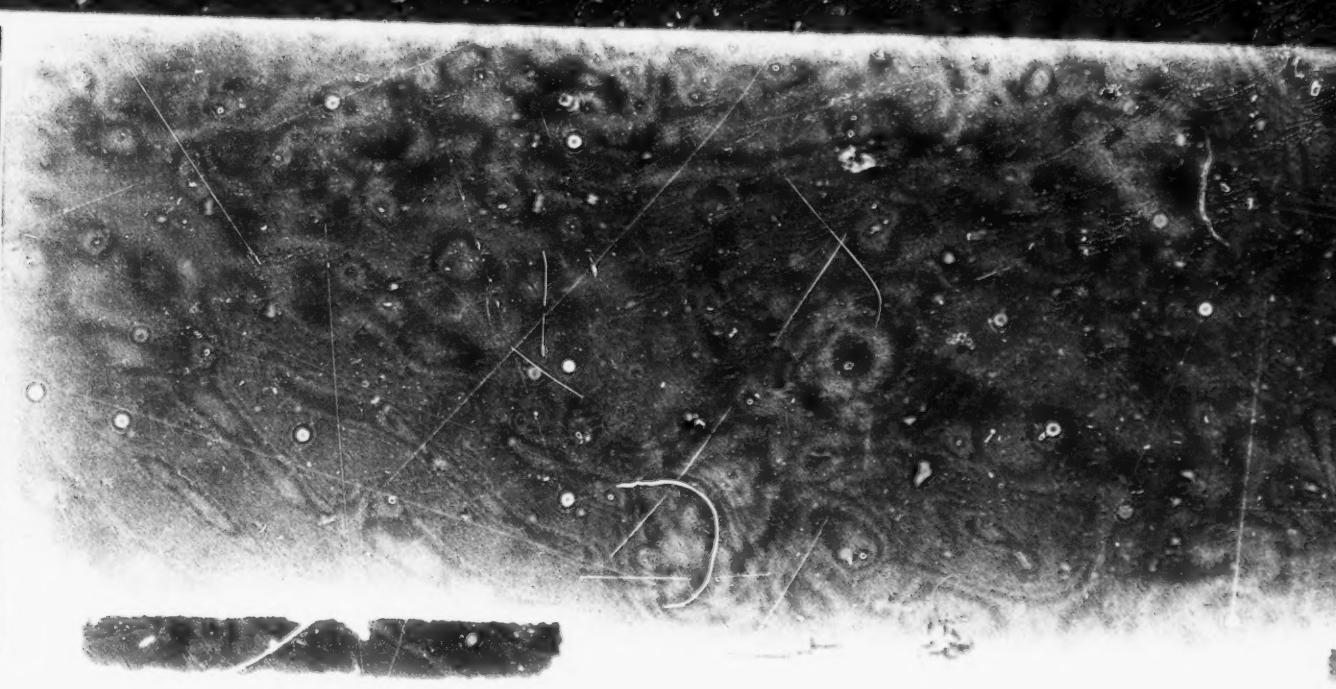


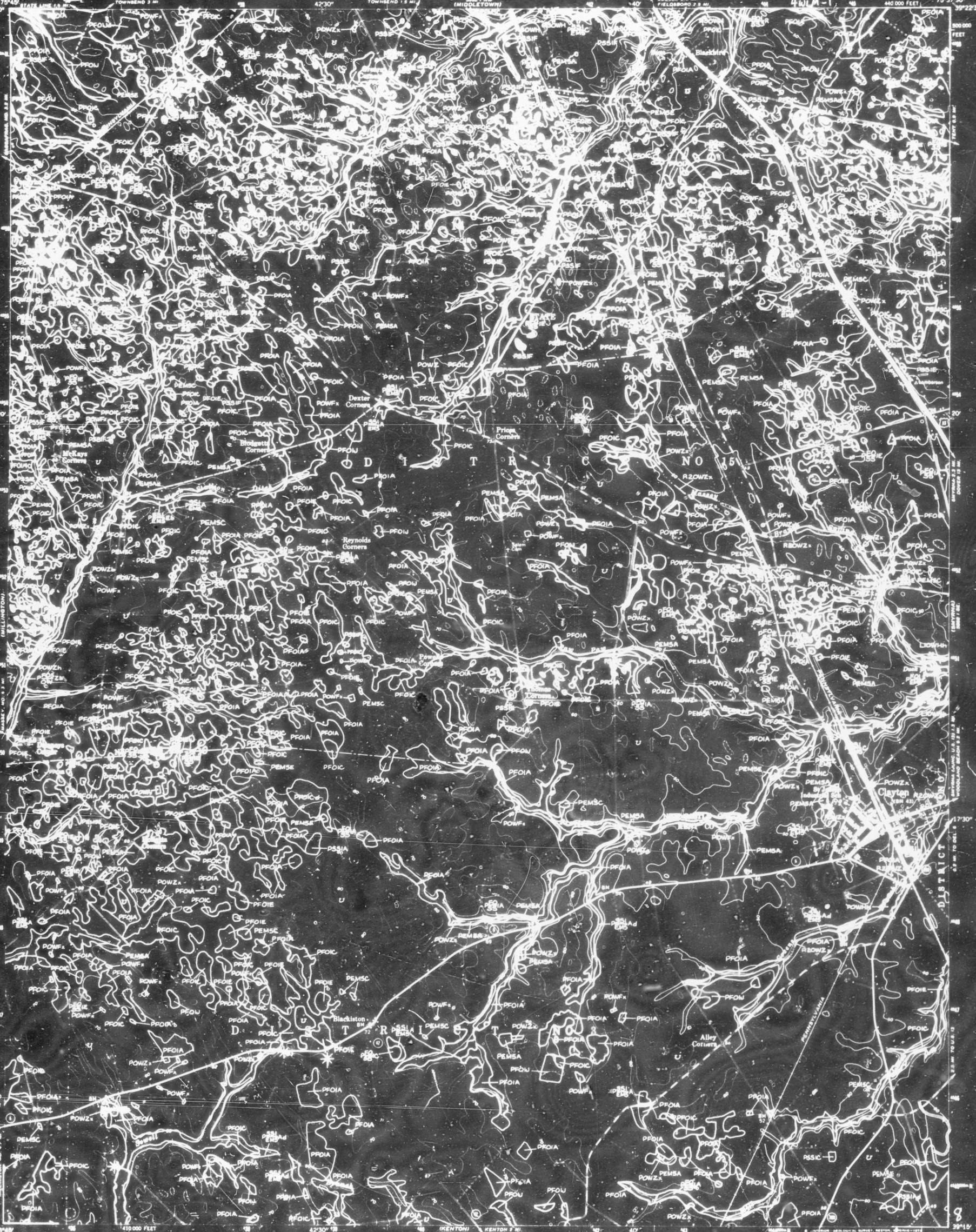


NATIONAL WETLANDS INVENTORY

UNITED STATES DEPARTMENT OF THE INTERIOR

CLAYTON DEL

4WLM-1



SCALE 1:24 000

A/P 3/82

CLAYTON, DEL.

WETLAND LEGEND

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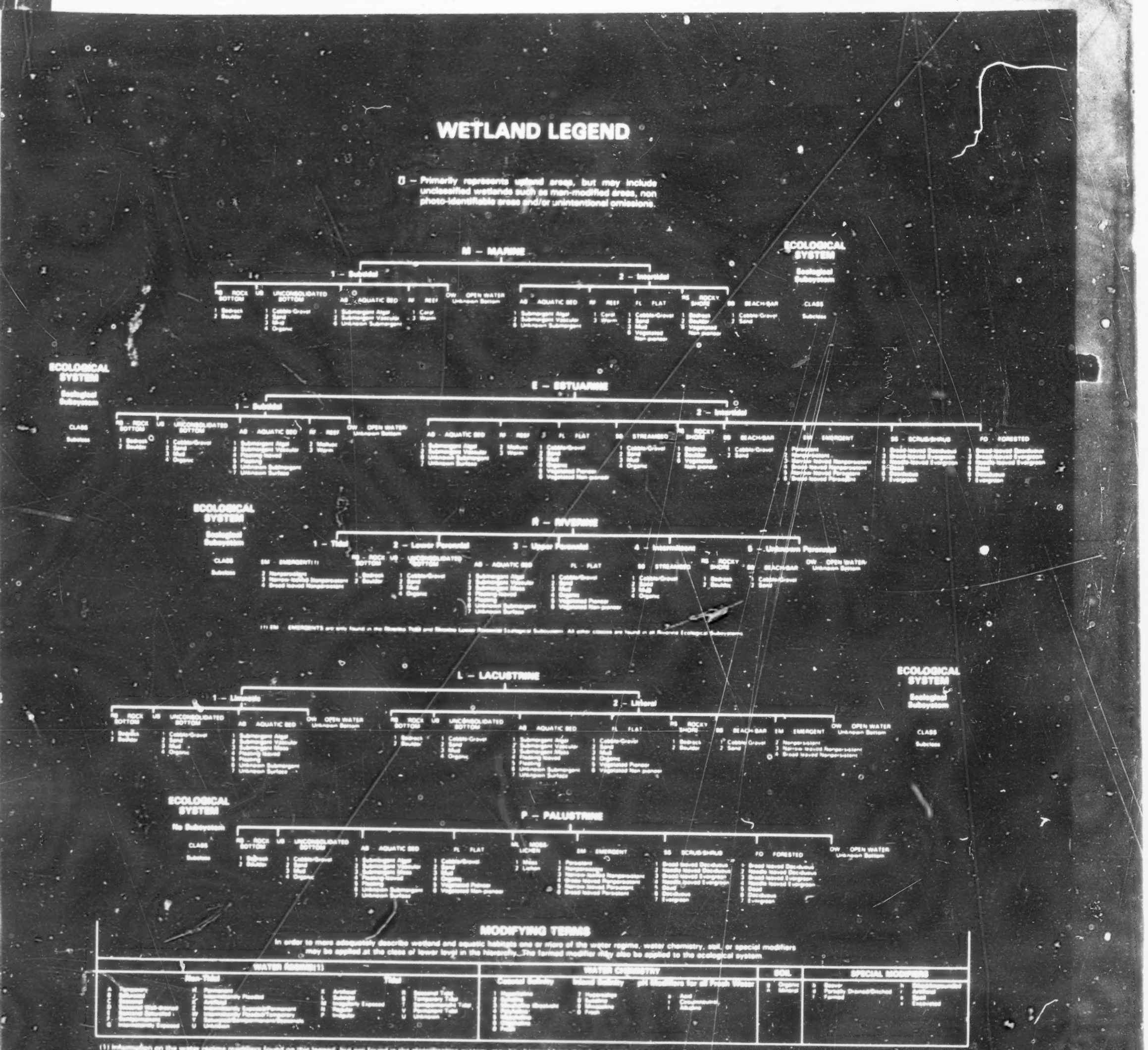

MODIFYING TERMS

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WATER REGIME(1)										WATER CHEMISTRY			SOIL	SPECIAL MODIFIERS	
Non-Tidal				Tidal						Coastal Salinity	Inland Salinity	pH Modifiers for all Fresh Water	Organic	Special	Farmed
Nontidal	Saturated	Artificial	Permanent Tidal	Permanent Tidal	Artificial					Hypersaline	Hypersaline	Acid	Mineral	Partially Drained/Ditched	
Permanently Flooded	Seasonally Flooded	Regularly Flooded	Irregularly Flooded	Seasonal Tidal	Regularly Flooded					Eusaline	Eusaline	Circumneutral		Farmed	
Intermittently Exposed/Permanent	Temporarily Flooded	Irregularly Flooded	Temporary Tidal	Temporary Tidal	Irregularly Flooded					Mixosaline	Mixosaline	Alkaline			
Permanently Flooded	Intermittently Exposed/Permanent									Fresh	Fresh				
Intermittently Exposed	Intermittently Exposed/Artificial														

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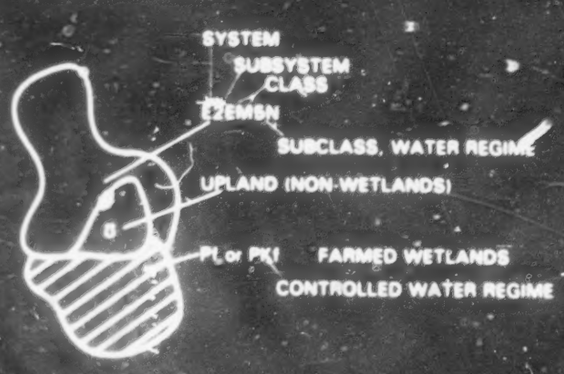
SYMBOLOGY EXAMPLE



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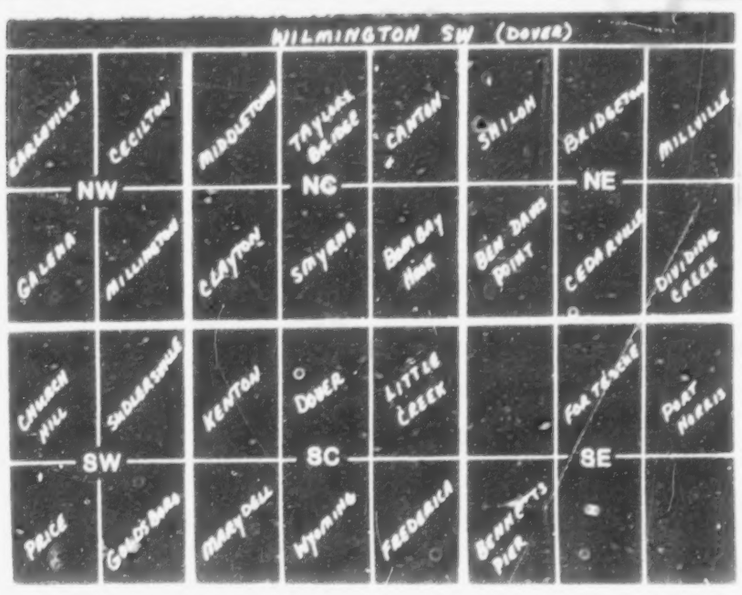

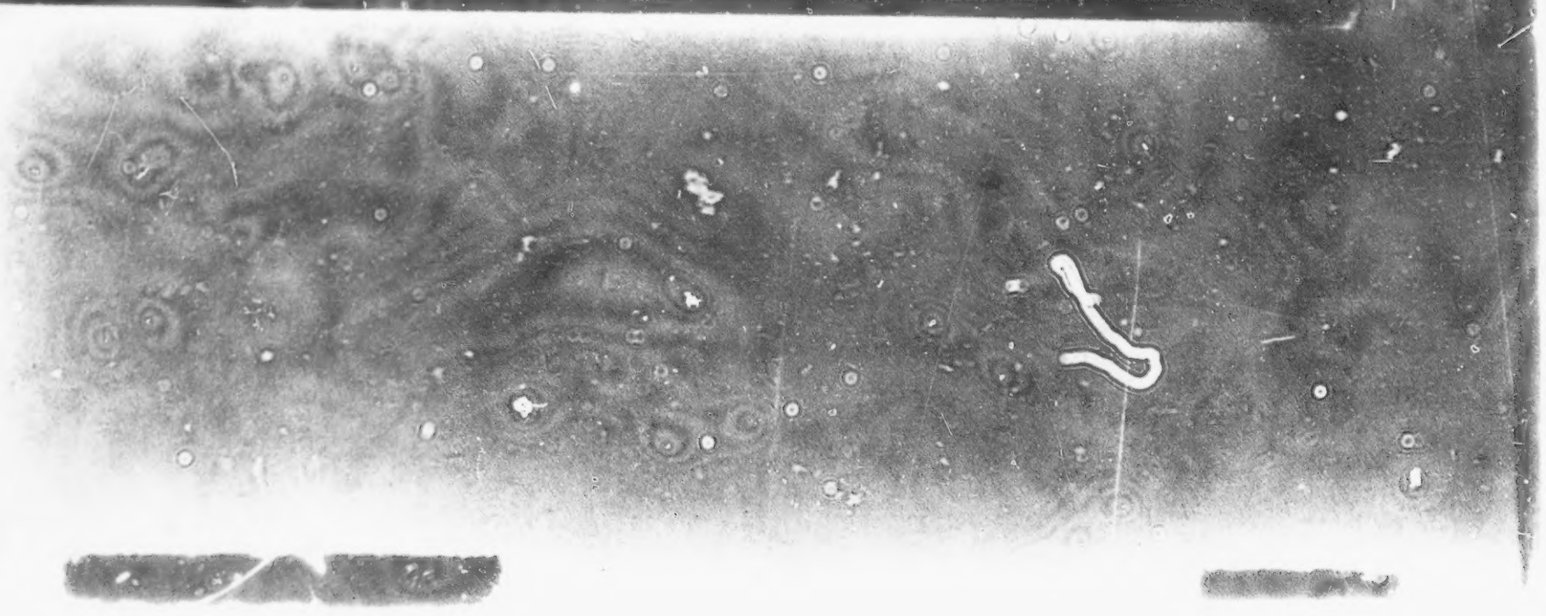

NATIONAL WETLANDS INVENTORY
UNITED STATES DEPARTMENT OF THE INTERIOR

SMYRNA, DEL.

4-WLM-5

WILMINGTON SW
DOVER

SCALE 1:24000

1 0 1 MILE
1000 0 1000 2000 3000 4000 5000 6000 7000 FEET
1 0 1 KILOMETER

INTERIOR-GEOLOGICAL SURVEY, WASHINGTON, D. C.-1971

9

39°15
75°30

SMYRNA, DEL.

WETLAND LEGEND

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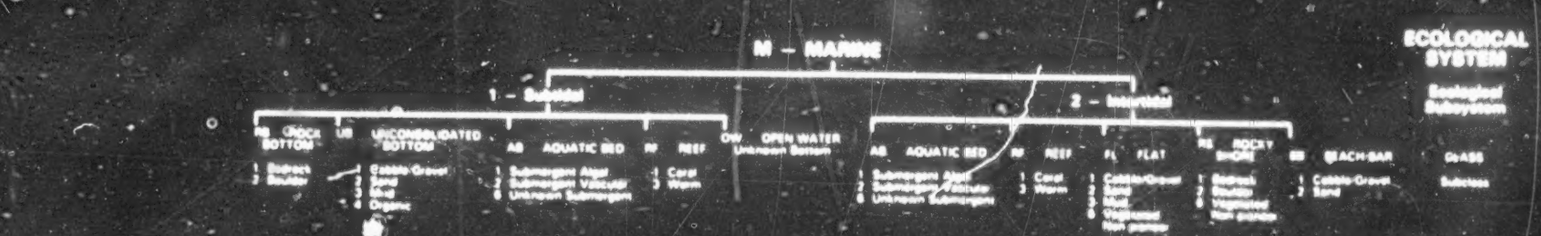

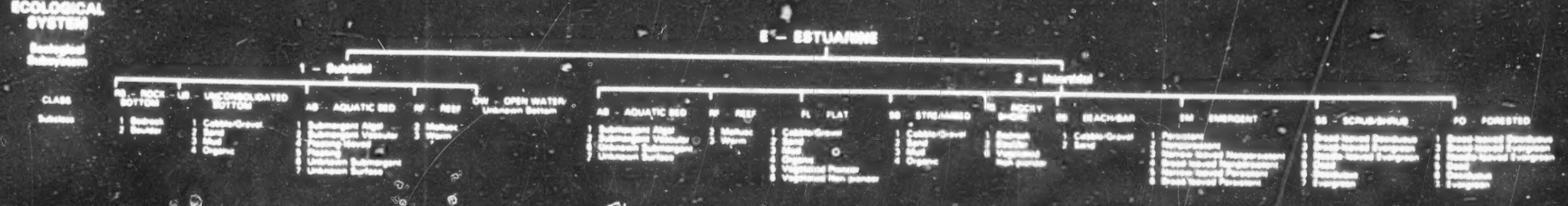

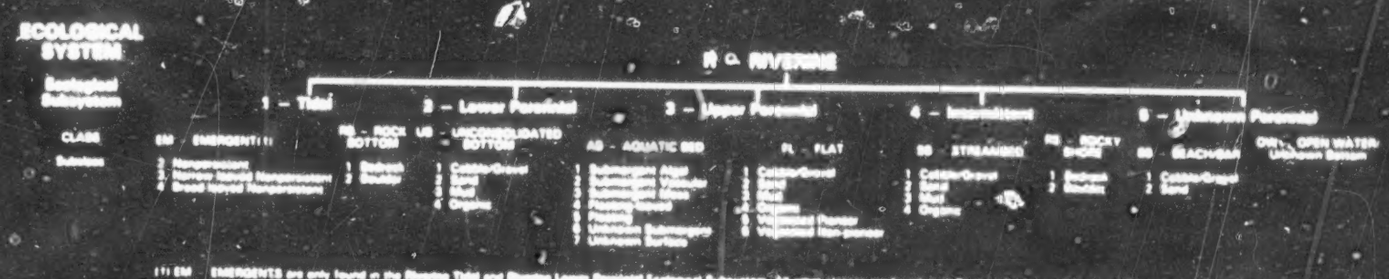

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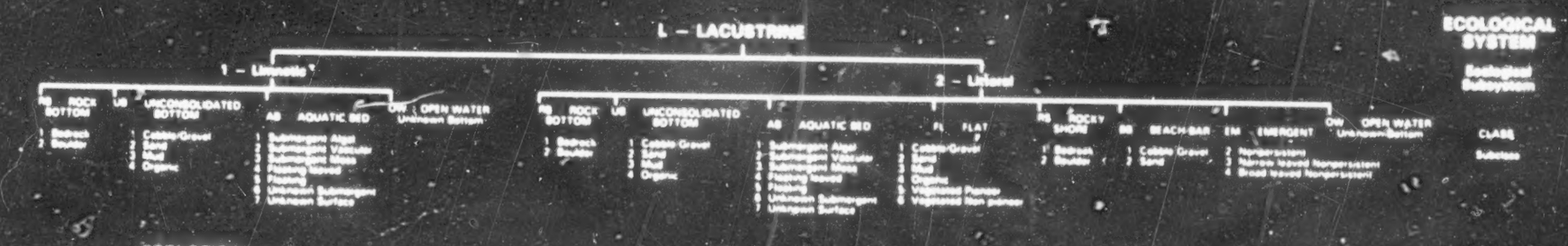

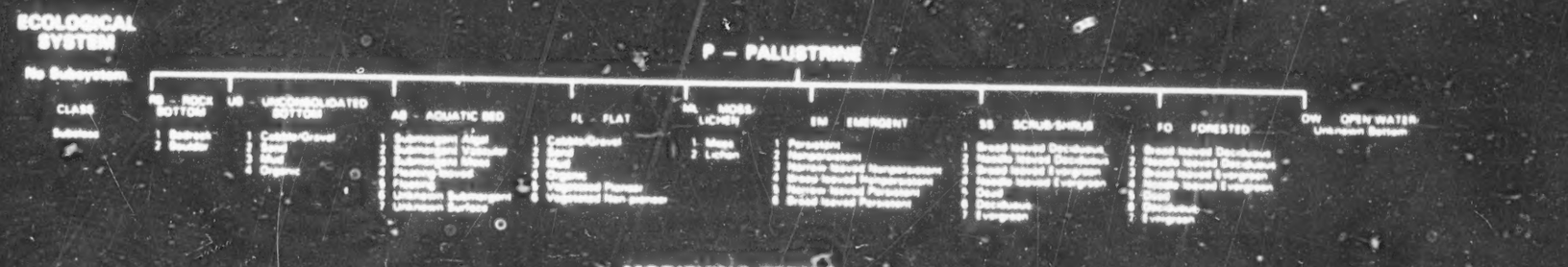

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WATER REGIME(1)				WATER CHEMISTRY			SOIL	SPECIAL MODIFIERS
Non-Tidal		Tidal		Coastal Salinity	Inland Salinity	pH Modifiers for all Fresh Water		
2. Permanent 3. Semipermanent 4. Intermittent 5. Temporary 6. Intermittent Flooded	7. Permanent 8. Semipermanent 9. Seasonal A. Temporary Flooded	C. Permanent D. Regularly Flooded E. Irregularly Flooded	F. Seasonal Tidal G. Temporary Tidal	H. Hypersaline J. Euhaline K. Mixohaline (Brackish) L. Polyhaline	M. Hyperhaline N. Euhaline O. Mixohaline (Brackish) P. Polyhaline	Q. Acid R. Circumneutral S. Alkaline	1. Organic 2. Mineral	T. Excavated V. Diked/Impounded W. Farmed Z. Artificial

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SYMBOLOGY EXAMPLE

SYSTEM
SUBSYSTEM
CLASS
S2EM5N
SUBCLASS, WATER REGIME
UPLAND (NON-WETLANDS)
FARMED WETLANDS
CONTROLLED WATER REGIME

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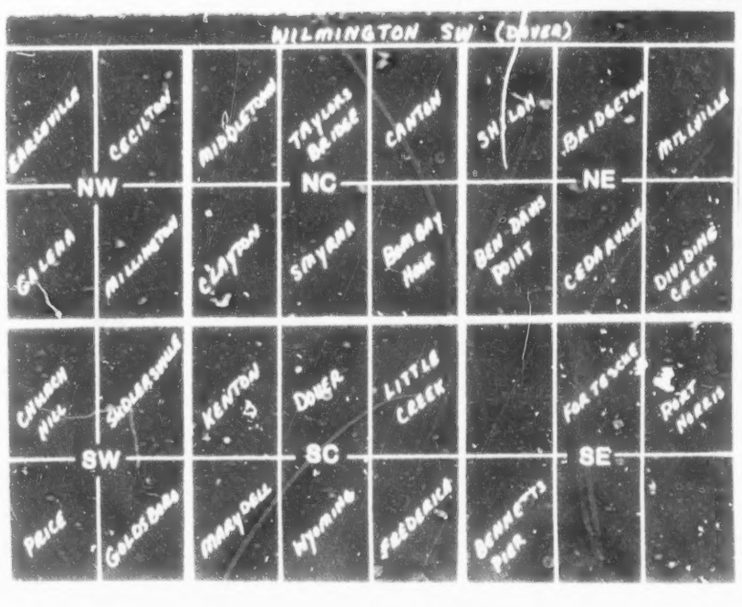

NATIONAL WETLANDS INVENTORY
UNITED STATES DEPARTMENT OF THE INTERIOR

4-WLM-7

BOMBAY HOOK, DEL.-N.J.

WILMINGTON SW
DOVER
SCALE 1:24000

GENERAL NOTES
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NOTES TO THE USER
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10

75°22'30"

BOMBAY HOOK, DEL.-NJ

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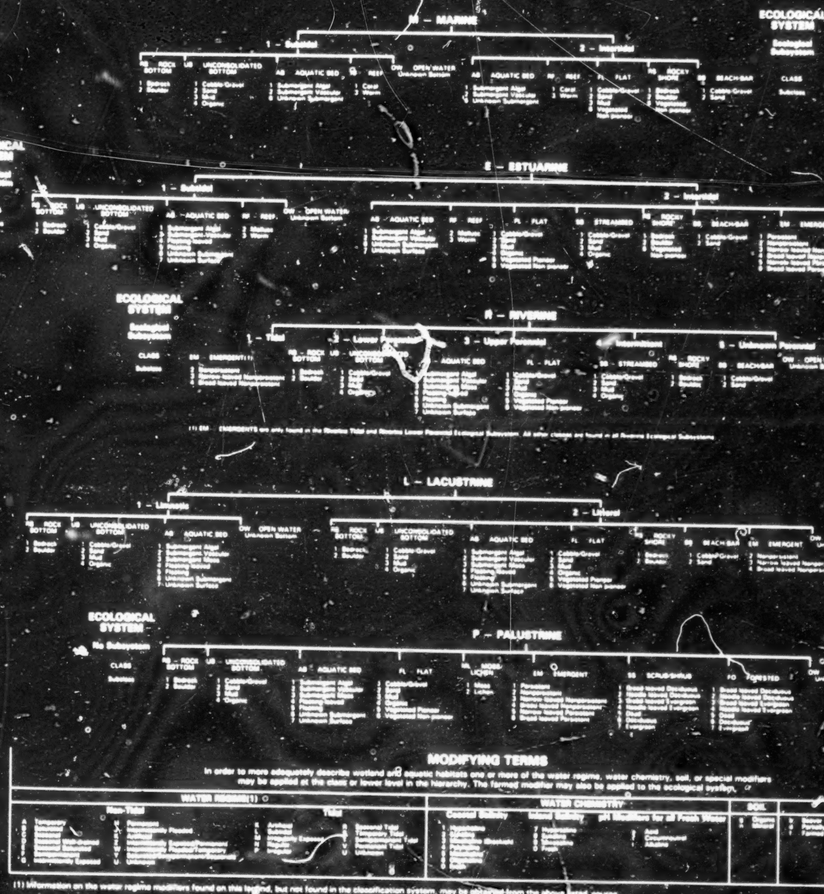

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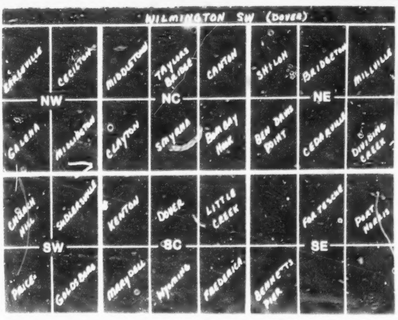
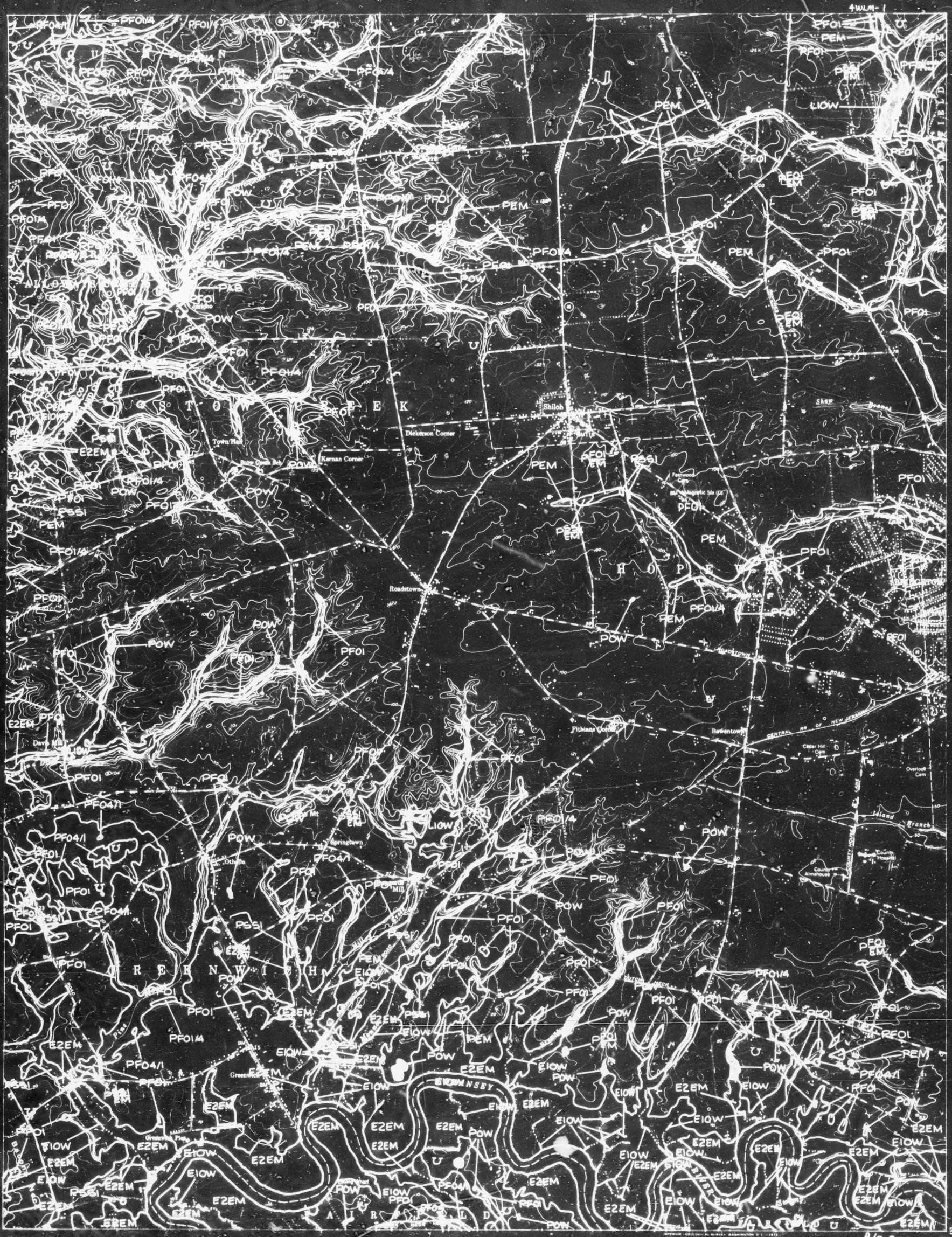


NATIONAL WETLANDS INVENTORY

UNITED STATES DEPARTMENT OF THE INTERIOR



WILMINGTON SW
DOVER

SCALE 1:24000

4WLM-1

11

39°22'30"

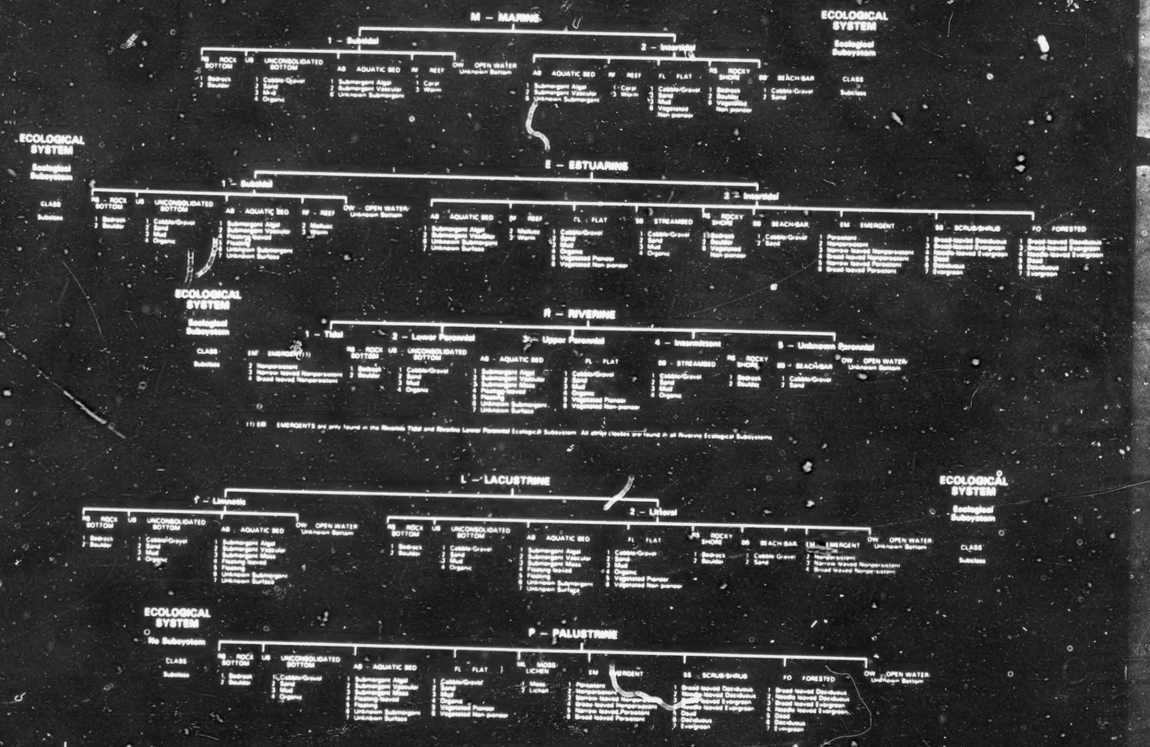
75°15'

A/P 3/77

SHILOH, N.J.

WETLAND LEGEND

U – Primarily represents upland areas, but may include unclassified wetlands such as man-modified areas, non photo-identifiable areas and/or unintentional omissions.



(1) EM EMERGENTS are only found in the Riverine Tidal and Riverine Lower Perennial Ecological Subsystem. All other classes are found in all Riverine Ecological Subsystems

MODIFYING TERMS

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WATER REGIMES(1)		WATER CHEMISTRY		SOIL	SPECIAL MODIFIERS
Non-Tidal	Tidal	General Salinity	pH Modifiers for all Fresh Water		
A Temporary	Permanent	Hyperhaline	Acid	Organic	Spoil
B Saturated	Intermittently Flooded	Euhaline	Circumneutral	Mineral	Ditched/Drained
C Seasonal	Artificial	Mixohaline	Alkaline		Farmed
D Seasonal Well-drained	Irregularly Exposed	Polyhaline			Diked/Impounded
E Artificial Saturated	Regularly Flooded/Permanent	Mesohaline			Partly Drained/Ditched
F Intermittently Exposed	Irregularly Flooded/Temporary	Oligohaline			Farmed
U Unknown	Permanent Tidal	Fresh			Diked/Impounded
	Temporary Tidal				
	Intermittent Tidal				
	Unknown				

(1) Information on the water regime modifiers found on this legend, but not found in the classification system, may be obtained from the above listed source

SPECIAL NOTE

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SYMBOLOGY EXAMPLE

NOTES TO THE USER

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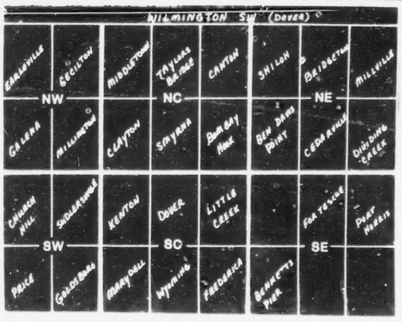
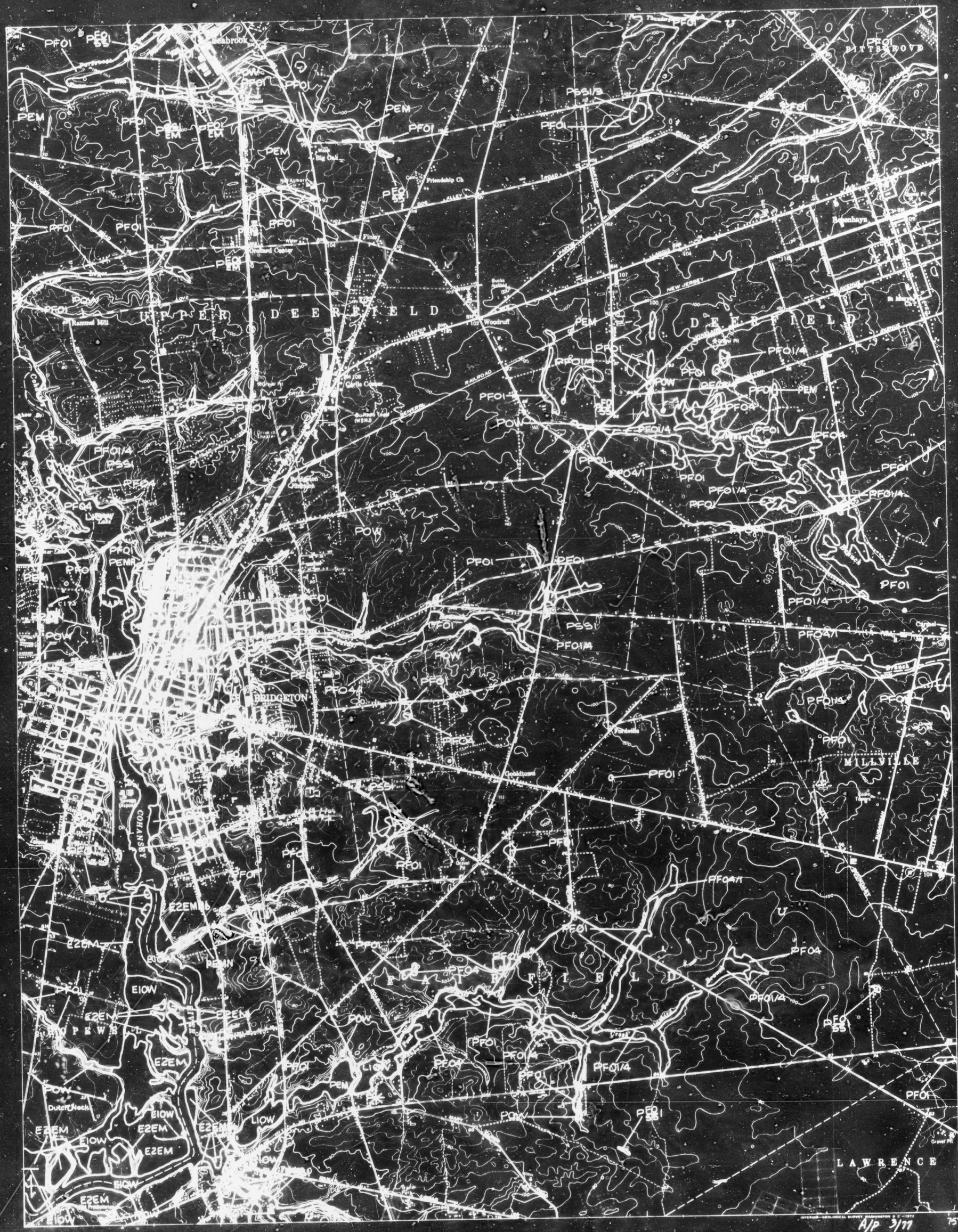


NATIONAL WETLANDS INVENTORY

UNITED STATES DEPARTMENT OF THE INTERIOR

4WM-5



WILMINGTON S.W.
DOVER

SCALE 1:24000

1 2

39°22'30"
75°07'30"

A/P 3/77

BRIDGETON, N.J.

WETLAND LEGEND

U – Primarily represents upland areas, but may include unclassified wetlands such as man-modified areas, non photo-identifiable areas and/or unintentional omissions.

M – MARINE

ECOLOGICAL SYSTEM → Ecological Subsystem → CLASS → Subclass

1 – Subtidal: RB ROCK BOTTOM (Bedrock, Boulder) | UB UNCONSOLIDATED BOTTOM (Cobble-Gravel, Sand, Organic) | AB AQUATIC BED (Submergent Algal, Submergent Vascular, Unknown Submergent) | RF REEF (Coral, Worm) | OW OPEN WATER (Unknown Bottom)

2 – Intertidal: AB AQUATIC BED (Submergent Algal, Submergent Vascular, Unknown Submergent) | RF REEF (Coral, Worm) | FL FLAT (Cobble-Gravel, Sand, Organic, Algal mat or crust, Vegetated floating or emergent) | RS ROCKY SHORE (Bedrock, Boulder, Rock pile) | BB BEACH BAR (Cobble-Gravel, Sand) | CLASS → Subclass

E – ESTUARINE

ECOLOGICAL SYSTEM → Ecological Subsystem → CLASS → Subclass

1 – Subtidal: RB ROCK BOTTOM (Bedrock, Boulder) | UB UNCONSOLIDATED BOTTOM (Cobble-Gravel, Sand, Organic) | AB AQUATIC BED (Submergent Algal, Submergent Vascular, Floating Vascular, Unknown Submergent) | RF REEF (Mollusk, Worm) | OW OPEN WATER (Unknown Bottom)

2 – Intertidal: AB AQUATIC BED (Submergent Algal, Submergent Vascular, Floating Vascular, Unknown Submergent) | RF REEF (Mollusk, Worm) | FL FLAT (Cobble-Gravel, Sand, Organic, Algal mat or crust, Vegetated Pioneer, Vegetated Non-pioneer) | SS STREAMBED (Cobble-Gravel, Sand, Organic) | RS ROCKY SHORE (Bedrock, Boulder, Rock pile) | BB BEACH BAR (Cobble-Gravel, Sand) | EM EMERGENT (Persistent, Nonpersistent, Narrow-leaved Nonpersistent, Broad-leaved Nonpersistent) | SS SCRUB-SHRUB (Broad-leaved Deciduous, Needle-leaved Deciduous, Broad-leaved Evergreen, Needle-leaved Evergreen, Dead, Deciduous, Evergreen) | FO FORESTED (Broad-leaved Deciduous, Needle-leaved Deciduous, Broad-leaved Evergreen, Needle-leaved Evergreen, Dead, Deciduous, Evergreen)

R – RIVERINE

ECOLOGICAL SYSTEM → Ecological Subsystem → CLASS → Subclass

1 – Tidal: EM EMERGENT(1) (Persistent, Nonpersistent) | RS ROCK BOTTOM (Bedrock, Boulder) | UB UNCONSOLIDATED BOTTOM (Cobble-Gravel, Sand, Organic) | AB AQUATIC BED (Submergent Algal, Submergent Vascular, Floating Vascular, Unknown Submergent) | FL FLAT (Cobble-Gravel, Sand, Organic, Algal mat or crust, Vegetated Pioneer, Vegetated Non-pioneer) | SS STREAMBED (Cobble-Gravel, Sand, Organic) | RS ROCKY SHORE (Bedrock, Boulder, Rock pile) | BB BEACH BAR (Cobble-Gravel, Sand)

2 – Lower Perennial | 3 – Upper Perennial | 4 – Intermittent | 5 – Unknown Perennial: OW OPEN WATER (Unknown Bottom)

(1) EM – EMERGENTS are only found in the Riverine Tidal and Riverine Lower Perennial Ecological Subsystem. All other classes are found in all Riverine Ecological Subsystems

L – LACUSTRINE

ECOLOGICAL SYSTEM → Ecological Subsystem → CLASS → Subclass

1 – Limnetic: RB ROCK BOTTOM (Bedrock, Boulder) | UB UNCONSOLIDATED BOTTOM (Cobble-Gravel, Sand, Organic) | AB AQUATIC BED (Submergent Algal, Submergent Vascular, Floating Vascular, Floating Algal, Unknown Submergent) | OW OPEN WATER (Unknown Bottom)

2 – Littoral: RB ROCK BOTTOM (Bedrock, Boulder) | UB UNCONSOLIDATED BOTTOM (Cobble-Gravel, Sand, Organic) | AB AQUATIC BED (Submergent Algal, Submergent Vascular, Floating Vascular, Floating Algal, Unknown Submergent) | FL FLAT (Cobble-Gravel, Sand, Organic, Algal mat or crust, Vegetated Pioneer, Vegetated Non-pioneer) | RS ROCKY SHORE (Bedrock, Boulder) | BB BEACH BAR (Cobble-Gravel, Sand) | EM EMERGENT (Nonpersistent, Narrow-leaved Nonpersistent, Broad-leaved Nonpersistent) | OW OPEN WATER (Unknown Bottom)

P – PALUSTRINE

ECOLOGICAL SYSTEM → Rig Subsystem → CLASS → Subclass

RS ROCK BOTTOM (Bedrock, Boulder) | UB UNCONSOLIDATED BOTTOM (Cobble-Gravel, Sand, Organic) | AB AQUATIC BED (Submergent Algal, Submergent Vascular, Floating Vascular, Floating Algal, Unknown Submergent) | FL FLAT (Cobble-Gravel, Sand, Organic, Algal mat or crust, Vegetated Pioneer, Vegetated Non-pioneer) | AL MOSS-LICHEN (Moss, Lichen) | EM EMERGENT (Persistent, Nonpersistent, Narrow-leaved Nonpersistent, Broad-leaved Nonpersistent) | SS SCRUB-SHRUB (Broad-leaved Deciduous, Needle-leaved Deciduous, Broad-leaved Evergreen, Needle-leaved Evergreen, Dead, Deciduous, Evergreen) | FO FORESTED (Broad-leaved Deciduous, Needle-leaved Deciduous, Broad-leaved Evergreen, Needle-leaved Evergreen, Dead, Deciduous, Evergreen) | OW OPEN WATER (Unknown Bottom)

MODIFYING TERMS

In order to more adequately describe wetland and aquatic habitats one or more of the water regime, water chemistry, soil, or special modifiers may be applied at the class or lower level in the hierarchy. The farmed modifier may also be applied to the ecological system.

| WATER REGIME(1) | | |

NATIONAL WETLANDS INVENTORY
UNITED STATES DEPARTMENT OF THE INTERIOR

13

39°22'30"
75°00'

A/P 3/77

MILLVILLE, N.J.

WILMINGTON SW
DOVER

SCALE 1:24000

WETLAND LEGEND

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M – MARINE

1 – Subtidal

RB ROCK BOTTOM: 1 Bedrock, 2 Boulder	UB UNCONSOLIDATED BOTTOM: 1 Cobble-Gravel, 2 Sand, 3 Mud, 4 Organic	AB AQUATIC BED: 1 Submergent Algal, 2 Submergent Vascular, 8 Unknown Submergent	RF REEF: 3 Coral, 3 Worm	OW OPEN WATER Unknown Bottom			

2 – Intertidal

AB AQUATIC BED: 1 Submergent Algal, 2 Submergent Vascular, 8 Unknown Submergent	RF REEF: 3 Coral, 3 Worm	FL FLAT: 1 Cobble-Gravel, 2 Sand, 3 Mud, 6 Vegetated Non pioneer	RS ROCKY SHORE: 1 Bedrock, 2 Boulder, 6 Vegetated Non pioneer	BB BEACH-BAR: 1 Cobble-Gravel, 2 Sand	CLASS: Subclass			

ECOLOGICAL SYSTEM — Ecological Subsystem

E – ESTUARINE

1 – Subtidal

RB ROCK BOTTOM: 1 Bedrock, 2 Boulder	UB UNCONSOLIDATED BOTTOM: 1 Cobble-Gravel, 2 Sand, 3 Mud, 4 Organic	AB AQUATIC BED: 1 Submergent Algal, 2 Submergent Vascular, 3 Floating Leaved, 4 Floating, 5 Unknown Submergent, 7 Unknown Surface	RF REEF: 3 Mollusc, 3 Worm	OW OPEN WATER Unknown Bottom

2 – Intertidal

AB AQUATIC BED: 1 Submergent Algal, 2 Submergent Vascular, 3 Floating Leaved, 4 Floating, 5 Unknown Submergent, 7 Unknown Surface	RF REEF: 3 Mollusc, 3 Worm	FL FLAT: 1 Cobble-Gravel, 2 Sand, 3 Mud, 4 Organic, 6 Vegetated Pioneer, 6 Vegetated Non pioneer	SB STREAMBED: 1 Cobble-Gravel, 2 Sand, 3 Mud, 4 Organic	RS ROCKY SHORE: 1 Bedrock, 2 Boulder, 6 Vegetated Non pioneer	BB BEACH-BAR: 1 Cobble-Gravel, 2 Sand	EM EMERGENT: 2 Nonpersistent, 3 Narrow leaved Persistent, 4 Broad leaved Persistent, 5 Narrow leaved Nonpersistent, 6 Broad leaved Nonpersistent	SS SCRUB/SHRUB: 1 Broad leaved Deciduous, 2 Broad leaved Evergreen, 3 Needle leaved Evergreen, 4 Dead, 5 Deciduous, 6 Evergreen	CLASS: Subclass	

ECOLOGICAL SYSTEM — Ecological Subsystem

R – RIVERINE

1 – Tidal | 2 – Lower Perennial | 3 – Upper Perennial | 4 – Intermittent | 5 – Unknown Perennial

EM EMERGENT(1): 2 Nonpersistent, 3 Narrow leaved Nonpersistent, 4 Broad leaved Nonpersistent	RB ROCK BOTTOM: 1 Bedrock, 2 Boulder	UB UNCONSOLIDATED BOTTOM: 1 Cobble-Gravel, 2 Sand, 3 Mud, 4 Organic	AB AQUATIC BED: 1 Submergent Algal, 2 Submergent Vascular, 3 Submergent Moss, 4 Floating leaved, 5 Floating, 6 Unknown Submergent, 7 Unknown Surface	FL FLAT: 1 Cobble-Gravel, 2 Sand, 3 Mud, 4 Organic, 6 Vegetated Pioneer, 6 Vegetated Non pioneer	SB STREAMBED: 1 Cobble-Gravel, 2 Sand, 3 Mud, 4 Organic	RS ROCKY SHORE: 1 Bedrock, 2 Boulder	BB BEACH-BAR: 1 Cobble-Gravel, 2 Sand	OW OPEN WATER Unknown Bottom	CLASS: Subclass	

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ECOLOGICAL SYSTEM — Ecological Subsystem

L – LACUSTRINE

1 – Limnetic

RB ROCK BOTTOM: 1 Bedrock, 2 Boulder	UB UNCONSOLIDATED BOTTOM: 1 Cobble-Gravel, 2 Sand, 3 Mud, 4 Organic	AB AQUATIC BED: 1 Submergent Algal, 2 Submergent Vascular, 3 Submergent Moss, 4 Floating leaved, 5 Floating, 6 Unknown Submergent, 7 Unknown Surface	OW OPEN WATER Unknown Bottom

2 – Littoral

RB ROCK BOTTOM: 1 Bedrock, 2 Boulder	UB UNCONSOLIDATED BOTTOM: 1 Cobble-Gravel, 2 Sand, 3 Mud, 4 Organic	AB AQUATIC BED: 1 Submergent Algal, 2 Submergent Vascular, 3 Submergent Moss, 4 Floating leaved, 5 Floating, 6 Unknown Submergent, 7 Unknown Surface	FL FLAT: 1 Cobble-Gravel, 2 Sand, 3 Mud, 4 Organic, 6 Vegetated Pioneer, 6 Vegetated Non pioneer	RS ROCKY SHORE: 1 Bedrock, 2 Boulder	BB BEACH-BAR: 1 Cobble Gravel, 2 Sand	EM EMERGENT: 2 Nonpersistent, 3 Narrow leaved Nonpersistent, 4 Broad leaved Nonpersistent	OW OPEN WATER Unknown Bottom

CLASS: Subclass

ECOLOGICAL SYSTEM — Ecological Subsystem

P – PALUSTRINE

RB ROCK BOTTOM: 1 Bedrock, 2 Boulder	UB UNCONSOLIDATED BOTTOM: 1 Cobble-Gravel, 2 Sand, 3 Mud, 4 Organic	AB AQUATIC BED: 1 Submergent Algal, 2 Submergent Vascular, 3 Submergent Moss, 4 Floating leaved, 5 Floating, 6 Unknown Submergent, 7 Unknown Surface	FL FLAT: 1 Cobble-Gravel, 2 Sand, 3 Mud, 4 Organic, 6 Vegetated Pioneer, 6 Vegetated Non pioneer	RS MOSS/LICHEN: 1 Moss, 2 Lichen	EM EMERGENT: 1 Persistent, 2 Nonpersistent, 3 Narrow leaved Nonpersistent, 4 Broad leaved Nonpersistent, 5 Narrow leaved Persistent, 6 Broad leaved Persistent	SS SCRUB/SHRUB: 1 Broad leaved Deciduous, 2 Needle leaved Deciduous, 3 Broad leaved Evergreen, 4 Needle leaved Evergreen, 5 Dead, 6 Deciduous, 7 Evergreen	FO FORESTED: 1 Broad leaved Deciduous, 2 Needle leaved Deciduous, 3 Broad leaved Evergreen, 4 Needle leaved Evergreen, 5 Dead, 6 Deciduous, 7 Evergreen	OW OPEN WATER Unknown Bottom

MODIFYING TERMS

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WATER REGIME(1)

Non-Tidal: A Temporary, B Saturated, C Seasonal, D Seasonal Well-drained, E Seasonal Saturated, F Semipermanent, G Intermittently Exposed

Tidal: H Permanent, J Intermittently Flooded, K Artificial, L Intermittently Exposed/Permanent, M Intermittently Flooded/Temporary, N Subtidal/Permanent/Semipermanent/Seasonal, U Unknown

Tidal: E Arbitrial, L Subtidal, R Irregularly Exposed, S Regular, T Irregular

Tidal: R Seasonal Tidal, T Temporary Tidal, V Semipermanent Tidal, U Permanent Tidal, U Unknown

WATER CHEMISTRY

Coastal Salinity: 1 Hypersaline, 2 Eusaline, 3 Mixosaline (Brackish), 4 Oligosaline, 5 Fresh

Inland Salinity: 6 Hypersaline, 7 Eusaline, 8 Mixosaline, 0 Fresh

pH Modifiers for all Fresh Water: a Acid, c Circumneutral, i Alkaline

SOIL: 0 Organic, 5 Mineral

SPECIAL MODIFIERS: b Beaver, d Partially Drained/Ditched, f Farmed, h Diked/Impounded, n Artificial, r Seral, x Excavated

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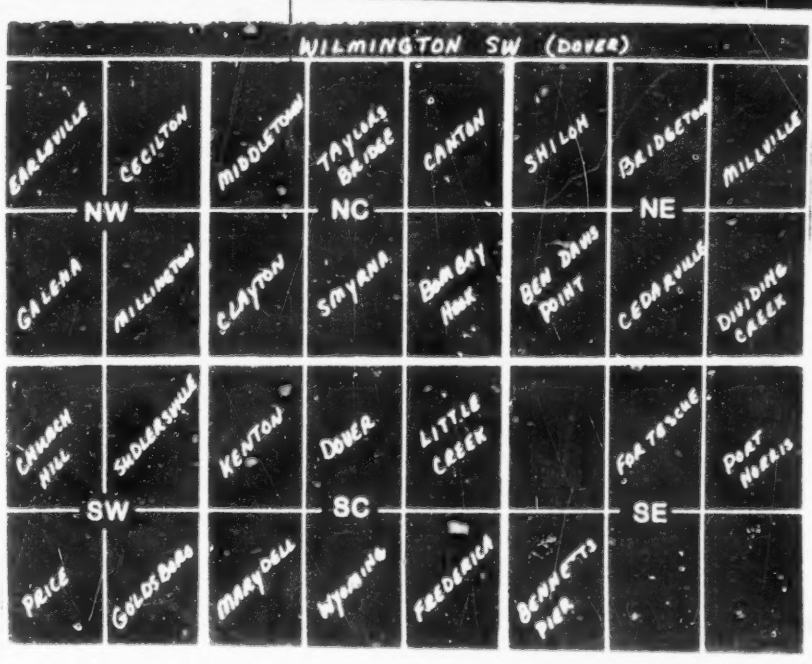
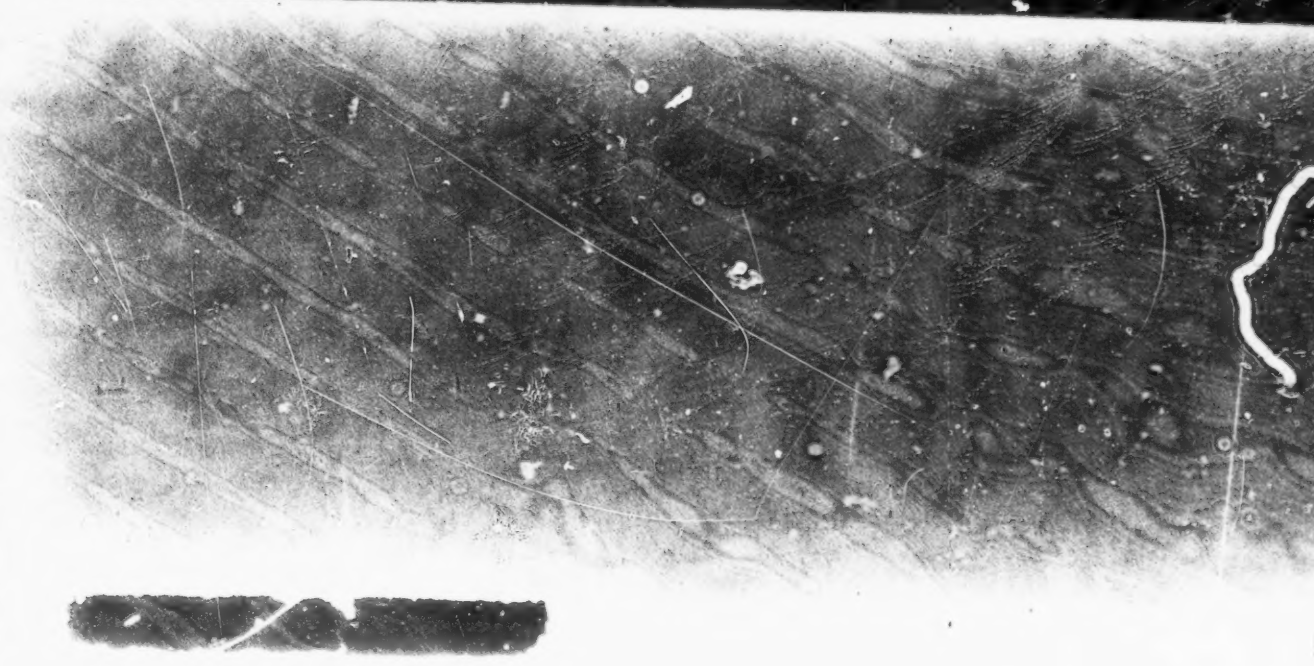
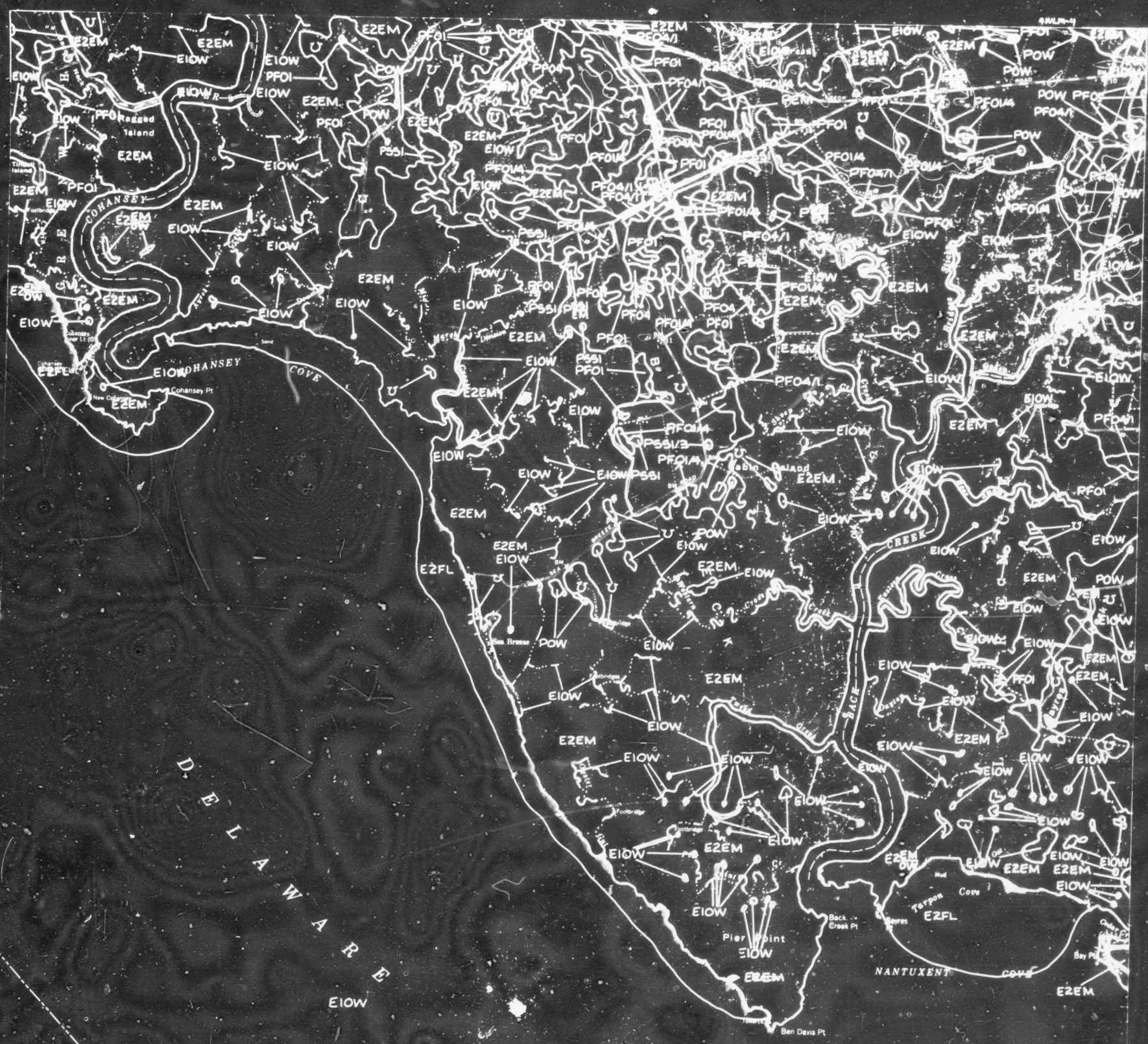




NATIONAL WETLANDS INVENTORY

UNITED STATES DEPARTMENT OF THE INTERIOR



WILMINGTON SW
DOVER

SCALE 1:24000

14

39°15'

75°15'

A/P 3/77

BEN DAVIS POINT, N.J.-DEL.

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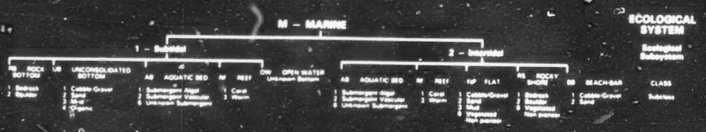

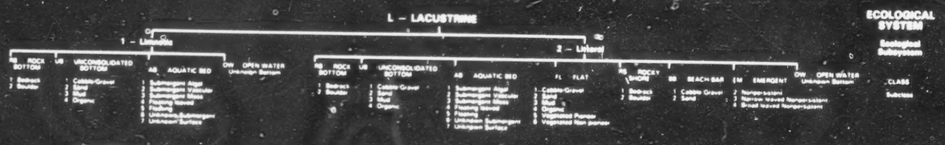

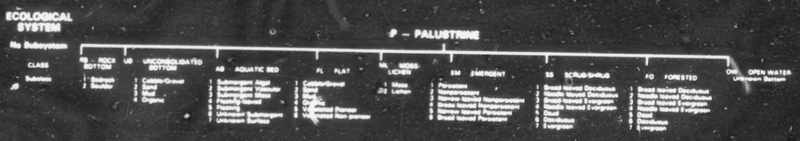

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Non-Tidal					Tidal					General Salinity		Modifiers for all Fresh Water							
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B	Saturated	G	Intermittently Flooded		J	Irregularly Exposed				4	Euhaline	7	Eurihaline			2	Partially Grazed	6	Farmed
C	Seasonal				K	Regularly Flooded				3	Mesohaline	8	Oligohaline			3	Intensively Grazed		
E	Saturated/Semipermanent/Intermittent									2	Polyhaline	9	Fresh			4	Diked/Impounded		
										1	Mixosaline								
U	Unknown				U	Unknown				U	Unknown								

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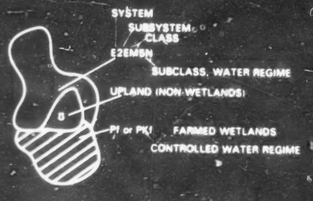

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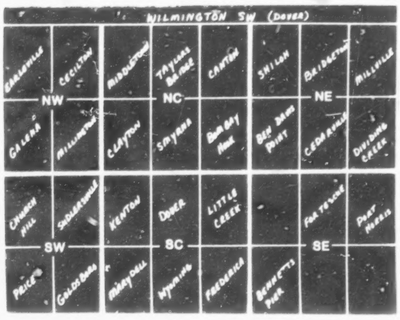

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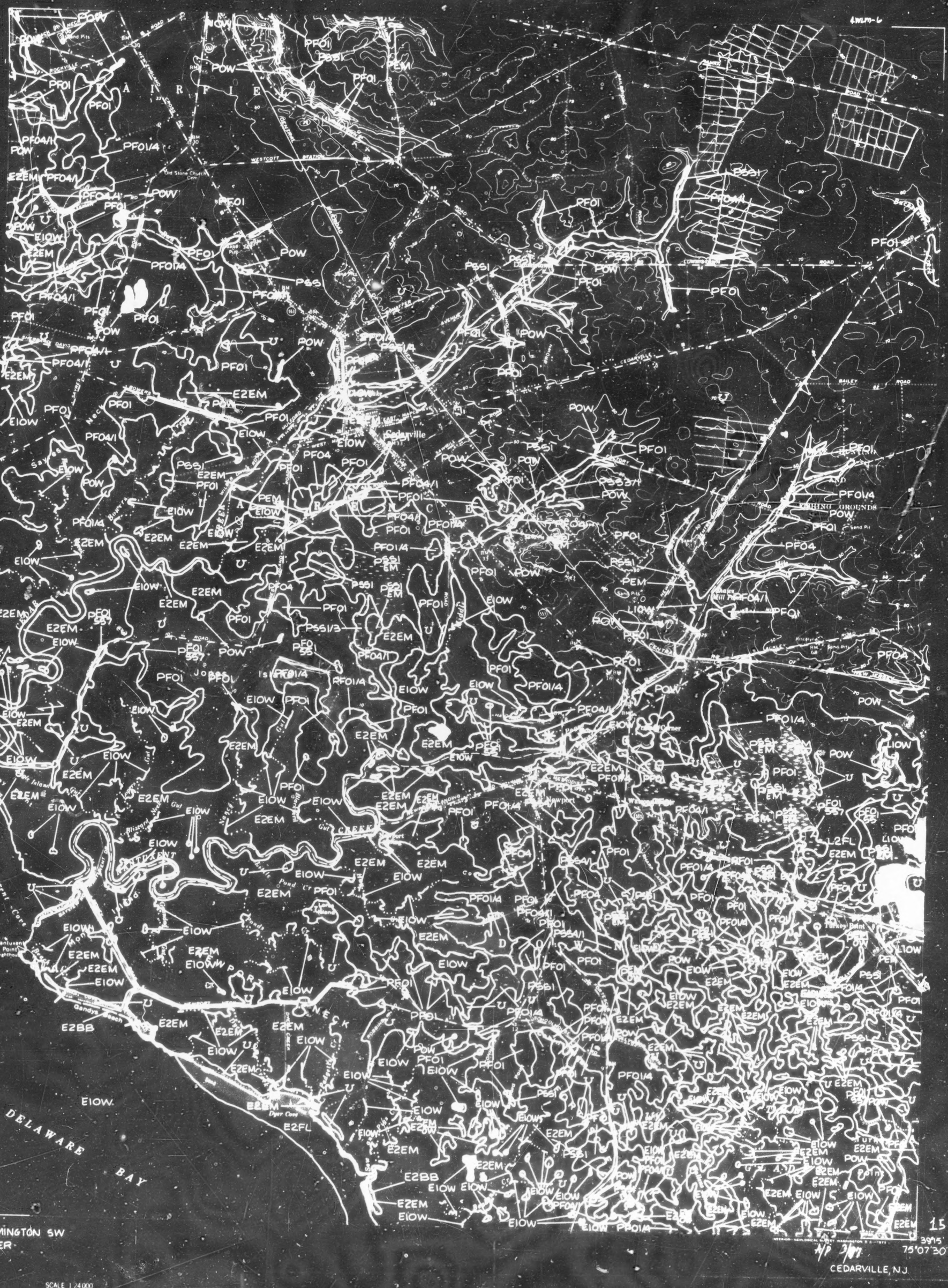
UNITED STATES DEPARTMENT OF THE INTERIOR


AIRFIE
ROCKVILLE
WESTCOTT
STATION
Old Stone Church Cem
Cedarville
Sayres Neck
Bowers Beach
Nantuxent Point Lighthouse
Nantuxent Cove
Gandys Beach
Dyer Cove
Jo
Is
Gut
Creek
Pond
Inland Bay
Blizzard Neck
Turkey Point
Nawport
Whites Mill Pond
Sand Pit
Sand Pits
Marsh
Woods
Tank
Tower
Church
Cem
Ch
Sch
Pt
Lt
Mon
Ruins
Wrecks
Piling
Piles
Dolphin
Dolphins
Fish Trap
Fish Traps
Fish Weir
Fish Weirs
Fish Haven
Fish Havens
Fish Stakes
Fish Stake
Fish Pound
Fish Pounds
Fish Net
Fish Nets
Fish Pen
Fish Pens
Fish Hatchery
Fish Hatcheries
Fish Ladder
Fish Ladders
Fish Screen
Fish Screens
Fish Weir
Fish Weirs
Fish Wheel
Fish Wheels
Fish Wheel
Fish Wheels
Fish Wheel
Fish Wheels

WETLAND LEGEND

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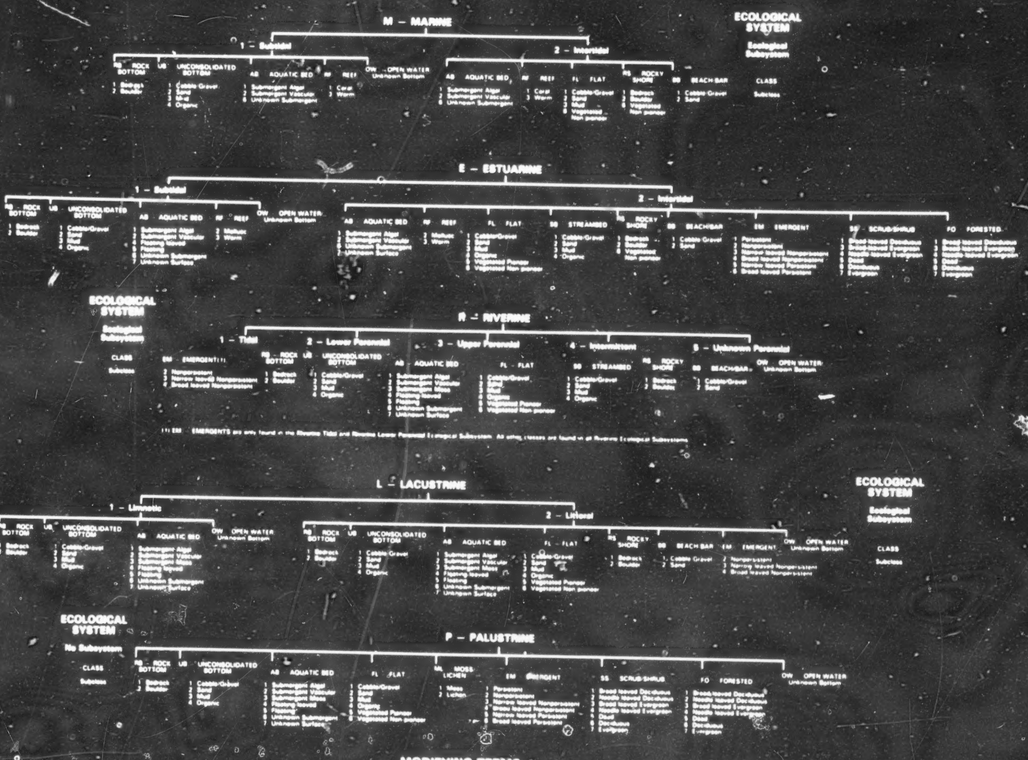

MODIFYING TERMS

In order to more adequately describe wetland and aquatic habitats one or more of the water regime, water chemistry, soil, or special modifiers may be applied at the class or lower level in the hierarchy. The term *farmed* modifier may also be applied to the ecological system.

WATER REGIME[1]						WATER CHEMISTRY				SOIL	SPECIAL MODIFIERS
Non-Tidal		Tidal				Coastal Salinity	Inland Salinity	pH Modifiers for all Fresh Water			
A Temporary	H Permanent					1 Hypersaline	1 Hypersaline	7 Acid		1 Organic	h Diked/Impounded
B Saturated	J Intermittently Flooded	S Subtidal	V Regularly Flooded			2 Eusaline	2 Eusaline	8 Circumneutral		2 Mineral	r Farmed
C Seasonal	K Artificially Flooded	T Irregularly Exposed	W Irregularly Flooded			3 Mixohaline (Brackish)	3 Oligohaline	9 Alkaline			s Spoil
E Seasonal/Well-drained		U Regularly Exposed				4 Polyhaline	4 Fresh				x Excavated
F Semipermanent						5 Mesohaline					
G Intermittently Exposed						6 Oligohaline					
						7 Fresh					

[1] Information on the water regime modifiers found on this legend, but not found in the classification system, may be obtained from the above listed source.

SPECIAL NOTE

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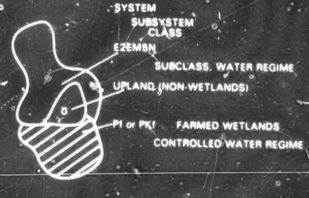
SYMBOLOGY EXAMPLE



NOTES TO THE USER

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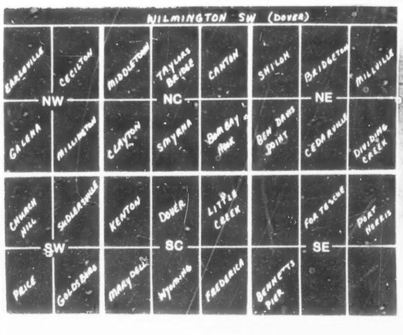

NATIONAL WETLANDS INVENTORY

UNITED STATES DEPARTMENT OF THE INTERIOR

4NLM-3

WILMINGTON SW
DOVER

SCALE 1:24000

16

39°15'

75°00'

1972

AMS 3/77

DIVIDING CREEK, N.J.

WETLAND LEGEND

0 – Primarily represents wetland areas, but may include unclassified wetlands such as man-modified areas, non photo-identifiable areas and/or unintentional omissions.

M – MARINE

ECOLOGICAL SYSTEM
Ecological Subsystem
CLASS
Subclass

1 – Subtidal

RB ROCK BOTTOM: Bedrock; Boulder
UB UNCONSOLIDATED BOTTOM: Cobble-Gravel; Sand; Mud; Organic
AB AQUATIC BED: Submergent Algal; Submergent Vascular; Submergent Floating; Unknown Submergent
RF REEF: Coral; Worm
OW OPEN WATER Unknown Bottom

2 – Intertidal

AB AQUATIC BED: Submergent Algal; Submergent Vascular; Unknown Submergent
RF REEF: Coral; Worm
FL FLAT: Cobble-Gravel; Sand; Mud; Organic; Vegetated Pioneer; Vegetated Non-pioneer
RS ROCKY SHORE: Bedrock; Rubble; Vegetated Pioneer; Vegetated Non-pioneer
BB BEACH BAR: Cobble-Gravel; Sand

E – ESTUARINE

ECOLOGICAL SYSTEM
Ecological Subsystem
CLASS
Subclass

1 – Subtidal

RB ROCK BOTTOM: Bedrock; Boulder
UB UNCONSOLIDATED BOTTOM: Cobble-Gravel; Sand; Mud; Organic
AB AQUATIC BED: Submergent Algal; Submergent Vascular; Floating Algal; Floating Vascular; Unknown Submergent; Unknown Surface
RF REEF: Mollusk; Worm
OW OPEN WATER Unknown Bottom

2 – Intertidal

AB AQUATIC BED: Submergent Algal; Submergent Vascular; Floating Algal; Floating Vascular; Unknown Submergent; Unknown Surface
RF REEF: Mollusk; Worm
FL FLAT: Cobble-Gravel; Sand; Mud; Organic; Vegetated Pioneer; Vegetated Non-pioneer
SS STREAMBED: Cobble-Gravel; Sand; Mud; Organic
RS ROCKY SHORE: Bedrock; Rubble; Vegetated Pioneer; Vegetated Non-pioneer
BB BEACH BAR: Cobble-Gravel; Sand
EM EMERGENT: Persistent; Nonpersistent; Narrow-leaved Nonpersistent; Broad-leaved Nonpersistent; Broad-leaved Persistent
SS SCRUB-SHRUB: Broad-leaved Evergreen; Needle-leaved Evergreen; Dead; Deciduous; Evergreen

R – RIVERINE

ECOLOGICAL SYSTEM
Ecological Subsystem
CLASS
Subclass

1 – Tidal | 2 – Lower Perennial | 3 – Upper Perennial | 4 – Intermittent | 5 – Unknown Perennial

EM EMERGENT(1): Nonpersistent; Narrow-leaved Nonpersistent; Broad-leaved Nonpersistent
RB ROCK BOTTOM: Bedrock; Boulder
UB UNCONSOLIDATED BOTTOM: Cobble-Gravel; Sand; Mud; Organic
AB AQUATIC BED: Submergent Algal; Submergent Vascular; Floating Algal; Floating Vascular; Unknown Submergent; Unknown Surface
FL FLAT: Cobble-Gravel; Sand; Mud; Organic; Vegetated Pioneer; Vegetated Non-pioneer
SS STREAMBED: Cobble-Gravel; Sand; Mud; Organic
RS ROCKY SHORE: Bedrock; Boulder
BB BEACH BAR: Cobble-Gravel; Sand
OW OPEN WATER Unknown Bottom

(1) EM – EMERGENTS are only found in the Riverine Tidal and Riverine Lower Perennial Ecological Subsystem. All other classes are found in all Riverine Ecological Subsystems.

L – LACUSTRINE

ECOLOGICAL SYSTEM
Ecological Subsystem
CLASS
Subclass

1 – Limnetic | 2 – Littoral

RB ROCK BOTTOM: Bedrock; Boulder
UB UNCONSOLIDATED BOTTOM: Cobble-Gravel; Sand; Mud; Organic
AB AQUATIC BED: Submergent Algal; Submergent Vascular; Floating Algal; Floating Vascular; Unknown Submergent; Unknown Surface
OW OPEN WATER Unknown Bottom
FL FLAT: Cobble-Gravel; Sand; Mud; Organic; Vegetated Pioneer; Vegetated Non-pioneer
RS ROCKY SHORE: Bedrock; Boulder
BB BEACH BAR: Cobble-Gravel; Sand
EM EMERGENT: Nonpersistent; Narrow-leaved Nonpersistent; Broad-leaved Nonpersistent

P – PALUSTRINE

ECOLOGICAL SYSTEM
No Subsystem
CLASS
Subclass

RB ROCK BOTTOM: Bedrock; Boulder
UB UNCONSOLIDATED BOTTOM: Cobble-Gravel; Sand; Mud; Organic
AB AQUATIC BED: Algal; Submergent Vascular; Floating Vascular; Unknown Submergent; Unknown Surface
FL FLAT: Cobble-Gravel; Sand; Mud; Organic; Vegetated Pioneer; Vegetated Non-pioneer
ML MOSS LICHEN: Moss; Lichen
EM EMERGENT: Persistent; Nonpersistent; Narrow-leaved Nonpersistent; Broad-leaved Nonpersistent; Broad-leaved Persistent
SS SCRUB-SHRUB: Broad-leaved Deciduous; Needle-leaved Deciduous; Broad-leaved Evergreen; Needle-leaved Evergreen; Dead; Deciduous; Evergreen
FO FORESTED: Broad-leaved Deciduous; Needle-leaved Deciduous; Broad-leaved Evergreen; Needle-leaved Evergreen; Dead; Deciduous; Evergreen
OW OPEN WATER Unknown Bottom

MODIFYING TERMS[1]

In order to more adequately describe wetland and aquatic habitats one or more of the water regime, water chemistry, soil, or special modifiers may be applied at the class or lower level in the hierarchy. The farmed modifier may also be applied to the ecological system.

WATER REGIMES(1)

Non-Tidal: A Temporary; B Saturated; C Seasonal; D Seasonal/Well-drained; E Seasonal/Saturated; F Semipermanent; G Intermittently Exposed; H Permanent; J Intermittently Flooded; K Artificial; Z Intermittently Exposed/Permanent; Y Saturated/Semipermanent/Permanent; U Unknown

Tidal: L Subtidal; M Irregularly Exposed; N Regularly Flooded; P Irregularly Exposed; R Semipermanent Tidal; S Temporary Tidal; T Intermittently Tidal; U Unknown

WATER CHEMISTRY

Coastal Salinity: 1 Hypersaline; 2 Euhaline; 3 Mixohaline; 4 Polyhaline; 5 Mesohaline; 6 Oligohaline; 7 Fresh

Inland Salinity: 8 Hyperhaline; 9 Eusaline; 0 Mixosaline; - Fresh

pH Modifiers for all Fresh Water: a Acid; b Circumneutral; c Alkaline

SOIL

1 Organic; 2 Mineral

SPECIAL MODIFIERS

1 Beaver; 2 Partially Drained/Ditched; 3 Farmed; 4 Diked/Impounded; 5 Artificial; 6 Revetted; 7 Excavated

(1) Information on the water regime modifiers found on this legend, but not found in the classification system, may be obtained from the above listed source.

SPECIAL NOTE

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SYMBOLOGY EXAMPLE

NOTES TO THE USER

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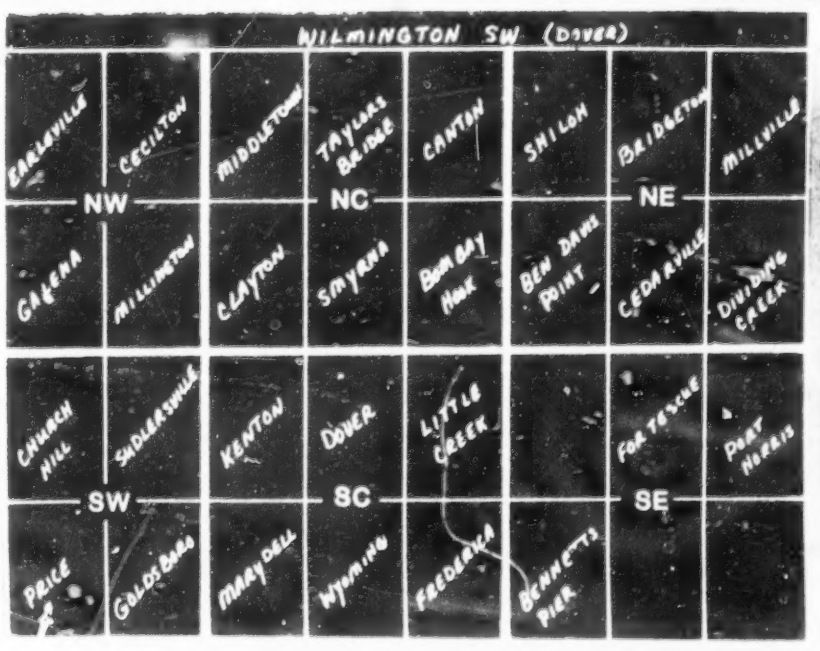

NATIONAL WETLANDS INVENTORY

UNITED STATES DEPARTMENT OF THE INTERIOR

CHURCH HILL, MD.

WILMINGTON SW
DOVER

SCALE 1:24000

17
39°07'30"
75°52'30"

A/P 4/81

CHURCH HILL, MD

WETLAND LEGEND

0 – Primarily represents upland areas, but may include unclassified wetlands such as man-modified areas, non photo-identifiable areas and/or unintentional omissions.

M – MARINE

ECOLOGICAL SYSTEM

Ecological Subsystem

CLASS

Subclass

1 – Subtidal

RB ROCK BOTTOM: 1 Bedrock, 2 Boulder

UB UNCONSOLIDATED BOTTOM: 1 Cobble-Gravel, 2 Sand, 3 Mud, 4 Organic

AB AQUATIC BED: 1 Submergent Algal, 2 Submergent Vascular, 3 Unknown Submergent

RF REEF: 1 Coral, 2 Worm

OW OPEN WATER Unknown Bottom

2 – Intertidal

AB AQUATIC BED: 1 Submergent Algal, 2 Submergent Vascular, 3 Unknown Submergent

RF REEF: 1 Coral, 2 Worm

FL FLAT: 1 Cobble-Gravel, 2 Sand, 3 Mud, 4 Organic, 5 Vegetated Non pioneer

RS ROCKY SHORE: 1 Bedrock, 2 Boulder, 3 Vegetated Non pioneer

BB BEACH BAR: 1 Cobble-Gravel, 2 Sand

E – ESTUARINE

ECOLOGICAL SYSTEM

Ecological Subsystem

CLASS

Subclass

1 – Subtidal

RB ROCK BOTTOM: 1 Bedrock, 2 Boulder

UB UNCONSOLIDATED BOTTOM: 1 Cobble-Gravel, 2 Sand, 3 Mud, 4 Organic

AB AQUATIC BED: 1 Submergent Algal, 2 Submergent Vascular, 3 Unknown Submergent, 4 Floating Vascular, 5 Unknown Surface

RF REEF: 1 Mollusk, 2 Worm

OW OPEN WATER Unknown Bottom

2 – Intertidal

AB AQUATIC BED: 1 Submergent Algal, 2 Submergent Vascular, 3 Unknown Submergent, 4 Unknown Surface

RF REEF: 1 Mollusk, 2 Worm

FL FLAT: 1 Cobble-Gravel, 2 Sand, 3 Mud, 4 Organic, 5 Vegetated Non pioneer

SS STREAMBED: 1 Cobble-Gravel, 2 Sand, 3 Mud, 4 Organic

RS ROCKY SHORE: 1 Bedrock, 2 Boulder, 3 Vegetated Non pioneer

BB BEACH BAR: 1 Cobble-Gravel, 2 Sand

EM EMERGENT: 1 Persistent, 2 Nonpersistent, 3 Narrow leaved Nonpersistent, 4 Broad leaved Nonpersistent, 5 Narrow leaved Persistent, 6 Broad leaved Persistent

SS SCRUB/SHRUB: 1 Broad leaved Deciduous, 2 Needle leaved Deciduous, 3 Broad leaved Evergreen, 4 Needle leaved Evergreen, 5 Dead, 6 Deciduous, 7 Evergreen

FO FORESTED: 1 Broad leaved Deciduous, 2 Needle leaved Deciduous, 3 Broad leaved Evergreen, 4 Needle leaved Evergreen, 5 Dead, 6 Deciduous, 7 Evergreen

R – RIVERINE

ECOLOGICAL SYSTEM

Ecological Subsystem

CLASS

Subclass

1 – Tidal | 2 – Lower Perennial | 3 – Upper Perennial | 4 – Intermittent | 5 – Unknown Perennial

EM EMERGENT(1): 1 Nonpersistent, 2 Narrow leaved Nonpersistent, 3 Broad leaved Nonpersistent

RB ROCK BOTTOM: 1 Bedrock, 2 Boulder

UB UNCONSOLIDATED BOTTOM: 1 Cobble-Gravel, 2 Sand, 3 Mud, 4 Organic

AB AQUATIC BED: 1 Submergent Algal, 2 Submergent Vascular, 3 Floating Vascular, 4 Floating Algal, 5 Unknown Submergent, 6 Unknown Surface

FL FLAT: 1 Cobble-Gravel, 2 Sand, 3 Mud, 4 Organic, 5 Vegetated Pioneer, 6 Vegetated Non pioneer

SS STREAMBED: 1 Cobble-Gravel, 2 Sand, 3 Mud, 4 Organic

RS ROCKY SHORE: 1 Bedrock, 2 Boulder

BB BEACH BAR: 1 Cobble-Gravel, 2 Sand

OW OPEN WATER Unknown Bottom

(1) EM – EMERGENTS are only found in the Riverine Tidal and Riverine Lower Perennial Ecological Subsystem. All other classes are found in all Riverine Ecological Subsystems.

L – LACUSTRINE

ECOLOGICAL SYSTEM

Ecological Subsystem

CLASS

Subclass

1 – Limnetic

RB ROCK BOTTOM: 1 Bedrock, 2 Boulder

UB UNCONSOLIDATED BOTTOM: 1 Cobble-Gravel, 2 Sand, 3 Mud, 4 Organic

AB AQUATIC BED: 1 Submergent Algal, 2 Submergent Vascular, 3 Floating Vascular, 4 Floating Algal, 5 Unknown Submergent, 6 Unknown Surface

OW OPEN WATER Unknown Bottom

2 – Littoral

RB ROCK BOTTOM: 1 Bedrock, 2 Boulder

UB UNCONSOLIDATED BOTTOM: 1 Cobble-Gravel, 2 Sand, 3 Mud, 4 Organic

AB AQUATIC BED: 1 Submergent Algal, 2 Submergent Vascular, 3 Floating Vascular, 4 Floating Algal, 5 Unknown Submergent, 6 Unknown Surface

FL FLAT: 1 Cobble-Gravel, 2 Sand, 3 Mud, 4 Organic, 5 Vegetated Pioneer, 6 Vegetated Non pioneer

RS ROCKY SHORE: 1 Bedrock, 2 Boulder

BB BEACH BAR: 1 Cobble-Gravel, 2 Sand

EM EMERGENT: 1 Nonpersistent, 2 Narrow leaved Nonpersistent, 3 Broad leaved Nonpersistent

OW OPEN WATER Unknown Bottom

P – PALUSTRINE

ECOLOGICAL SYSTEM

No Subsystem

CLASS

Subclass

RB ROCK BOTTOM: 1 Bedrock, 2 Boulder

UB UNCONSOLIDATED BOTTOM: 1 Cobble-Gravel, 2 Sand, 3 Mud, 4 Organic

AB AQUATIC BED: 1 Submergent Algal, 2 Submergent Vascular, 3 Floating Vascular, 4 Floating Algal, 5 Unknown Submergent, 6 Unknown Surface

FL FLAT: 1 Cobble-Gravel, 2 Sand, 3 Mud, 4 Organic, 5 Vegetated Pioneer, 6 Vegetated Non pioneer

SB MB MOSS LICHEN: 1 Moss, 2 Lichen

EM EMERGENT: 1 Persistent, 2 Nonpersistent, 3 Narrow leaved Nonpersistent, 4 Broad leaved Nonpersistent, 5 Narrow leaved Persistent, 6 Broad leaved Persistent

SS SCRUB/SHRUB: 1 Broad leaved Deciduous, 2 Needle leaved Deciduous, 3 Broad leaved Evergreen, 4 Needle leaved Evergreen, 5 Dead, 6 Deciduous, 7 Evergreen

FO FORESTED: 1 Broad leaved Deciduous, 2 Needle leaved Deciduous, 3 Broad leaved Evergreen, 4 Needle leaved Evergreen, 5 Dead, 6 Deciduous, 7 Evergreen

OW OPEN WATER Unknown Bottom

MODIFYING TERMS

In order to more adequately describe wetland and aquatic habitats one or more of the water regime, water chemistry, soil, or special modifiers may be applied at the class or lower level in the hierarchy. The farmed modifier may also be applied to the ecological system.

WATER REGIME(1)

Non-Tidal

A Temporary: Nonriverine
B Saturated: Nonriverine
C Seasonal: Nonriverine
D Seasonal Well-drained: Nonriverine
E Seasonal Saturated: Nonriverine
F Semipermanent: Nonriverine
G Intermittently Exposed: Nonriverine
H Permanent: Nonriverine
J Intermittently Flooded: Nontidal
K Artificial: Nontidal
M Intermittently Exposed/Permanent: Nontidal
R Semipermanent/Seasonal: Nontidal
S Temporary/Semipermanent: Nontidal
U Intermittently Flooded/Temporary: Nontidal
V Saturated/Semipermanent/Seasonal: Nontidal
Z Unknown: Nontidal

Tidal

L Artificial: Subtidal
N Irregularly Exposed: Subtidal
P Regular: Subtidal
T Irregular: Subtidal
W Subtidal: Tidal
X Temporary Tidal: Tidal
Y Semipermanent Tidal: Tidal
Z Unknown: Tidal

WATER CHEMISTRY

Coastal Salinity: 1 Hypohaline, 2 Mesohaline, 3 Polyhaline, 4 Euhaline, 5 Hyperhaline, 6 Metahaline, 7 Hypersaline, 8 Ultrahaline, 9 Brackish, 0 Fresh

Inland Salinity: 1 Hyperhaline, 2 Eusaline, 3 Mesosaline, 4 Oligosaline, 5 Fresh

pH Modifiers for all Fresh Water: 6 Acid, 7 Circumneutral, 8 Alkaline

SOIL

Organic, Mineral

SPECIAL MODIFIERS

Beaver, Partially Drained/Ditched, Farmed, Diked/Impounded, Artificial, Spoil, Excavated

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WILMINGTON SW. (DOVER)

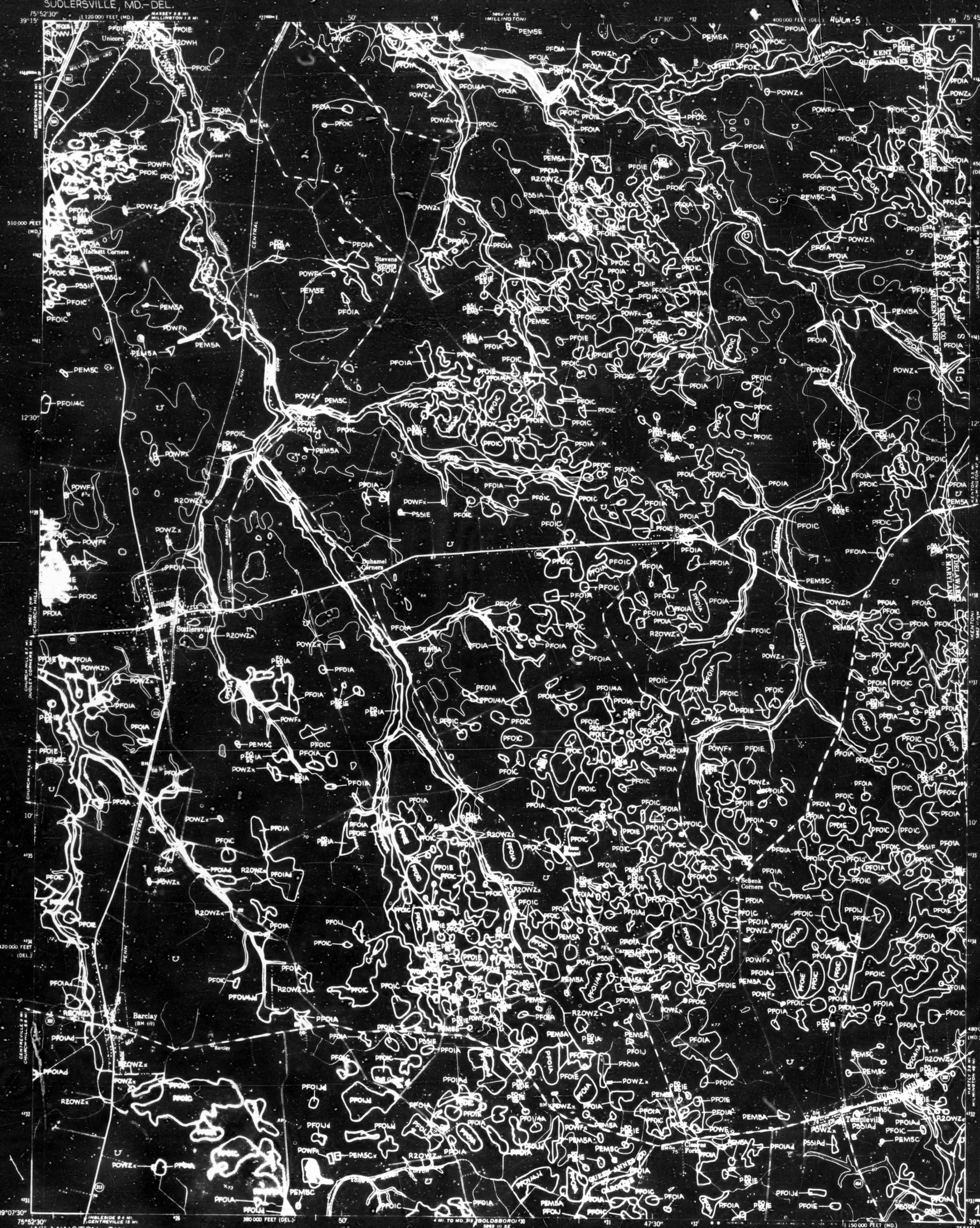
EARLEVILLE	RESCUE	MIDDLETOWN	TAYLORS BRIDGE	CANTON	SYLVAN	BALDWIN	MILLVILLE
NW			NC			NE	
GALENA	MILLINGTON	CLAYTON	SNYDER	BOMBAY HOOK	BEN DAVIS POINT	CEDARVILLE	DIVIDING CREEK
CHURCH HILL	SUDLERSVILLE	KEATON	DOVER	LITTLE CREEK		FOX TENSE	PRIME HOOK
SW			SC			SE	
PAGE	GOLDEN BAR	MAGNOLIA	WYOMING	FREDERICA	BENNETTS PIER		

NATIONAL WETLANDS INVENTORY

UNITED STATES DEPARTMENT OF THE INTERIOR

SUDLERSVILLE, MD.-DEL.

4WLM-5



A/P 3912

18

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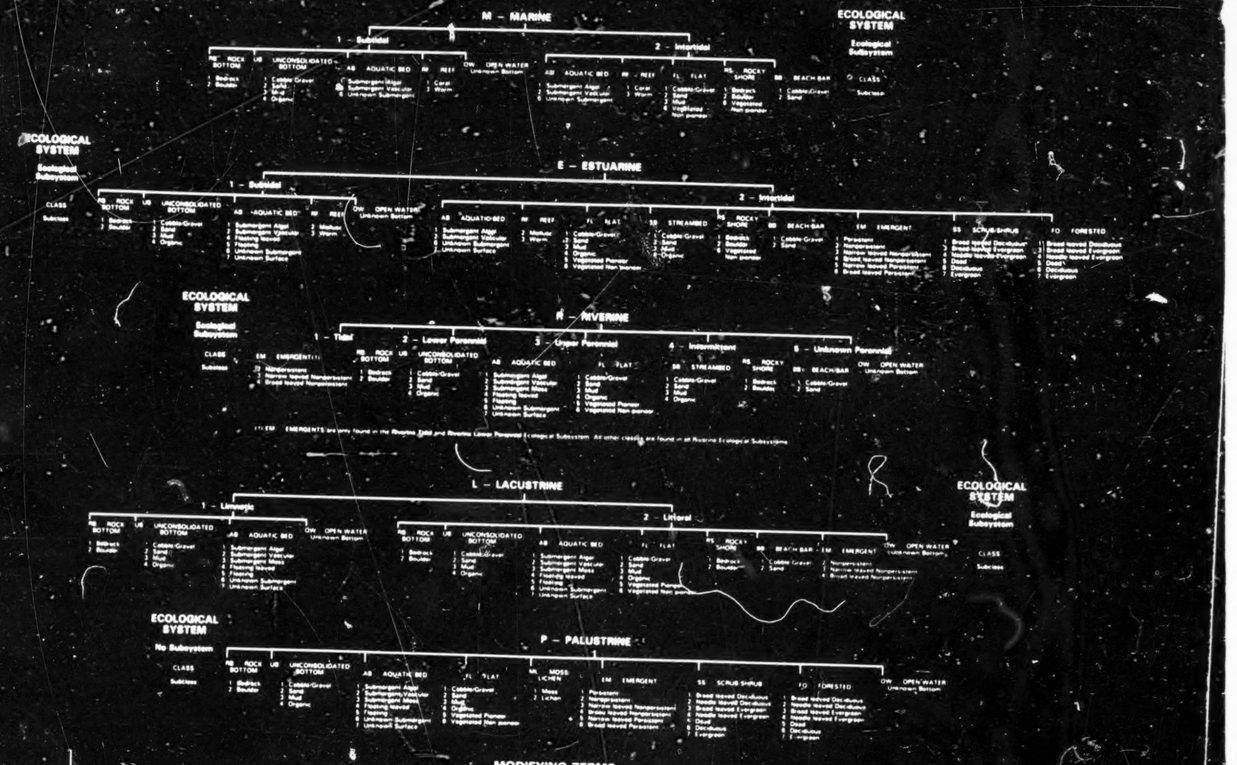

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WATER REGIME(1)								WATER CHEMISTRY				SOIL	SPECIAL MODIFIERS	
Non-Tidal			Tidal					Coastal Salinity	Inland Salinity	pH Modifiers for all Fresh Water				
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B Saturated	J Intermittently Flooded		M Irregularly Exposed	S Temporary Tidal				2 Eusaline	2 Eusaline	7 Circumneutral		3 Mineral	b Partially Drained/Ditched	e Farmed
C Seasonal	K Artificial		N Regularly Flooded	T Semipermanent Tidal				3 Mesohaline (Brackish)	3 Oligohaline	8 Alkaline			f Farmed	
D Intermittently Exposed			P Irregular	U Unknown				4 Polyhaline	4 Fresh					
E Permanently Flooded								5 Metahaline						
F Semipermanently Flooded								6 Hyperhaline						
G Intermittently Exposed								0 Fresh						

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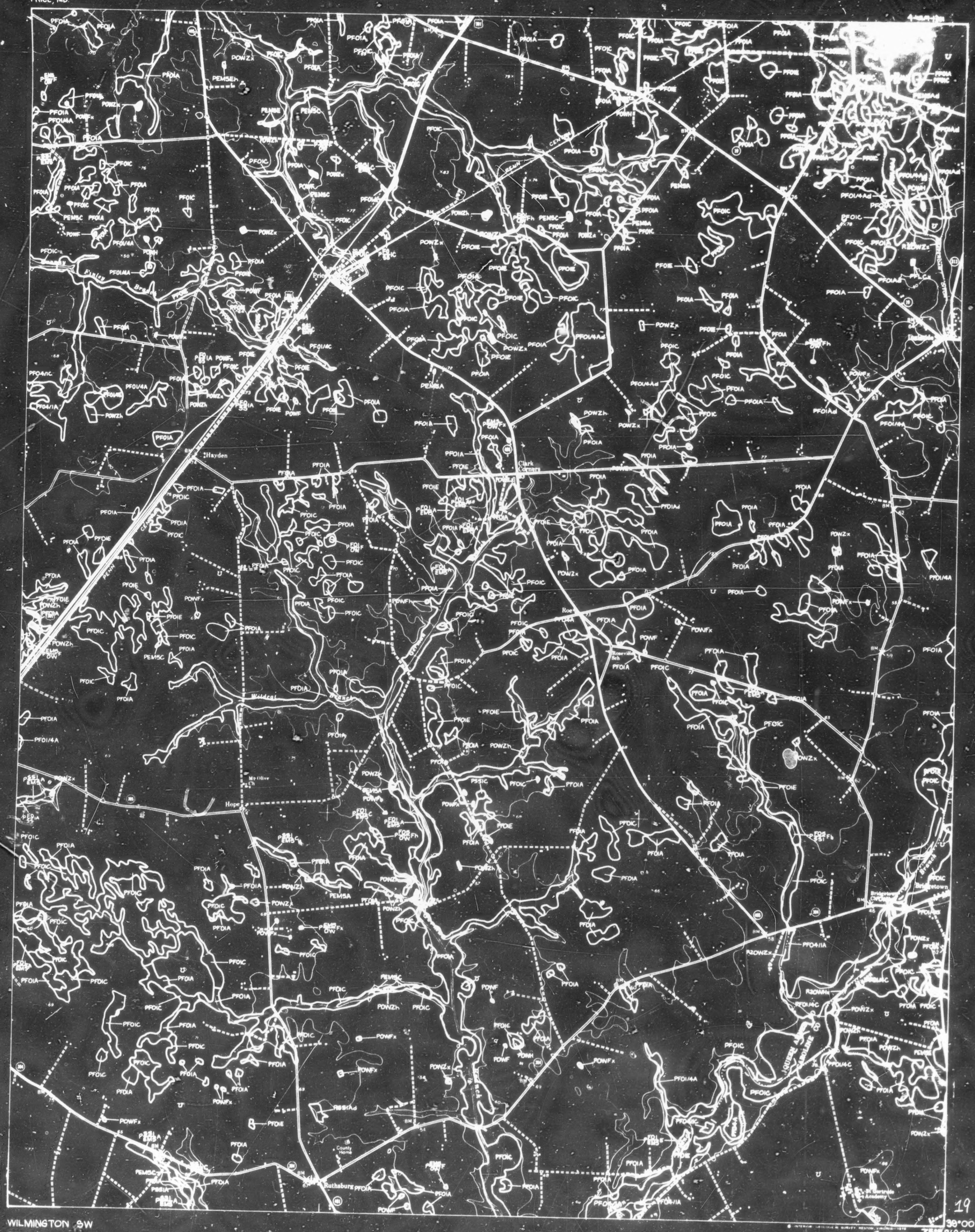
ARTESVILLE	CRESTON	RIDDLETOWN	TAYLORS BRIDGE	CANTAN	SHILOH	BAYDEETH	MILLVILLE
NW			NC			NE	
SALEM	MILLINGTON	CLAYTON	SMYRNA	BOOMERANG	BEN DAVIS POINT	EDGEHILL	DIVIDING CREEK
CHURCH HILL	SUDLERSVILLE	KENTON	DOVER	LITTLE CREEK		FOX FIELDS	PORT MAHON
SW			SC			SE	
PALE	GOLDSBORO	HARRINGTON	WYOMING	FREDERICA	BENNETTS PIER		

NATIONAL WETLANDS INVENTORY

UNITED STATES DEPARTMENT OF THE INTERIOR

PRICE, MD.



19

38°00'

75°52'30"

WILMINGTON SW

DOVER

SCALE 1:24 000

A/P 9m

PRICE, MD

WETLAND LEGEND

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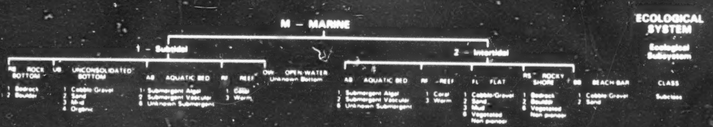

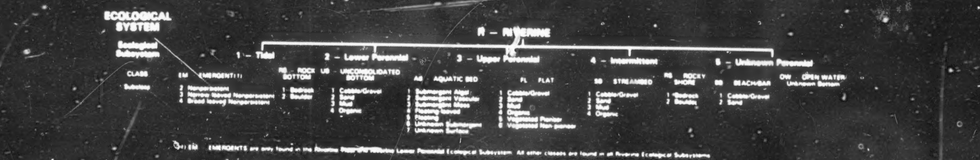

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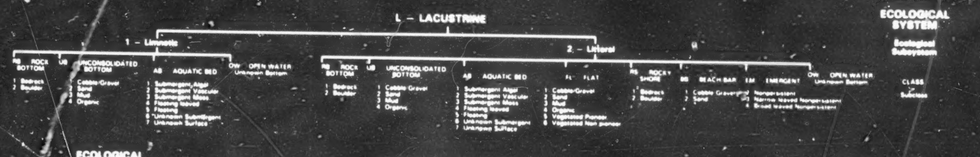

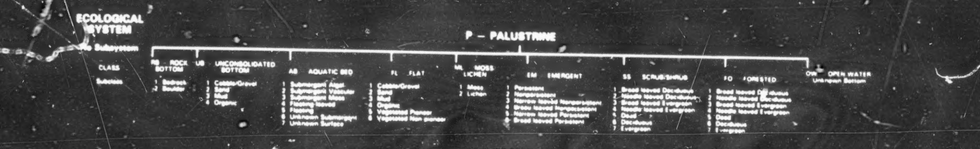

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WATER REGIME(1)		WATER CHEMISTRY		SOIL	SPECIAL MODIFIERS
Non-Tidal	Tidal	Coastal Salinity	Inland Salinity	pH Modifiers for all Fresh Water		
A Temporary B Saturated C Seasonal D Seasonal Well-drained E Seasonal Saturated F Semipermanent G Intermittently Exposed	H Permanent J Intermittently Flooded K Artificial L Intermittently Exposed/Permanent M Intermittently Exposed/Semipermanent N Intermittently Exposed/Permanent P Permanently Flooded U Unknown	E Artificial F Subtidal G Irregularly Exposed H Regularly Flooded J Irregular	S Seasonal Tidal T Temporary Tidal W Semipermanent Tidal X Permanent Tidal U Unknown	1 Hyperhaline 2 Euhaline 3 Mixohaline (Brackish) 4 Polyhaline 5 Mesohaline 6 Oligohaline 0 Fresh	1 Hypersaline 2 Eusaline 3 Mixosaline 4 Polysaline 5 Mesosaline 6 Oligosaline 0 Fresh	1 Acid 2 Circumneutral 3 Alkaline	1 Organic 2 Mineral	b Beaver d Partially Drained/Ditched f Farmed	h Diked/Impounded r Artificial s Spoil x Excavated

(1) Information on the water regime modifiers found on this legend, but not found in the classification system, may be obtained from the above listed source

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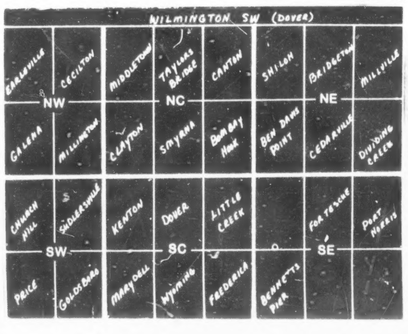

NATIONAL WETLANDS INVENTORY

UNITED STATES DEPARTMENT OF THE INTERIOR

GOLDSBORO, MD.

4WLM-6

WILMINGTON SW

DOVER

A/P 3/82

GOLDSBORO, MD.

WETLAND LEGEND

U – Primarily represents upland areas, but may include unclassified wetlands such as man-modified areas, non photo-identifiable areas and/or unintentional omissions.

M – MARINE

ECOLOGICAL SYSTEM — Ecological Subsystem — CLASS — Subclass

1 – Subtidal

RB ROCK BOTTOM	UB UNCONSOLIDATED BOTTOM	AB AQUATIC BED	RF REEF	OW OPEN WATER Unknown Bottom
1 Bedrock 2 Boulder	1 Cobble-Gravel 2 Sand 3 Mud 4 Organic	1 Submergent Algal 2 Submergent Vascular 5 Unknown Submergent	1 Coral 2 Worm	

2 – Intertidal

AB AQUATIC BED	RF REEF	FL FLAT	RS ROCKY SHORE	BB BEACH/BAR
1 Submergent Algal 2 Submergent Vascular 5 Unknown Submergent	1 Coral 2 Worm	1 Cobble-Gravel 2 Sand 3 Mud 4 Vegetated, non-persist.	1 Bedrock 2 Boulder 4 Vegetated, non-persist.	1 Cobble-Gravel 2 Sand

E – ESTUARINE

ECOLOGICAL SYSTEM — Ecological Subsystem — CLASS — Subclass

1 – Subtidal

RB ROCK BOTTOM	UB UNCONSOLIDATED BOTTOM	AB AQUATIC BED	RF REEF	OW OPEN WATER Unknown Bottom
1 Bedrock 2 Boulder	1 Cobble-Gravel 2 Sand 3 Mud 4 Organic	1 Submergent Algal 2 Submergent Vascular 3 Floating Leaved 4 Floating 5 Unknown Submergent 6 Unknown Surface	1 Mollusc 2 Worm	

2 – Intertidal

AB AQUATIC BED	RF REEF	FL FLAT	SS STREAMBED	RS ROCKY SHORE	BB BEACH/BAR	EM EMERGENT	SS SCRUB/SHRUB	FO FORESTED
1 Submergent Algal 2 Submergent Vascular 3 Floating Leaved 4 Floating 5 Unknown Submergent 6 Unknown Surface	1 Mollusc 2 Worm	1 Cobble-Gravel 2 Sand 3 Mud 4 Organic 5 Vegetated Pioneer 6 Vegetated Non pioneer	1 Cobble-Gravel 2 Sand 3 Mud 4 Organic	1 Bedrock 2 Boulder 4 Vegetated, non-persist.	1 Cobble-Gravel 2 Sand	1 Persistent 2 Nonpersistent 3 Narrow leaved Nonpersistent 4 Broad leaved Nonpersistent 5 Narrow leaved Persistent 6 Broad leaved Persistent	1 Broad leaved Deciduous 2 Broad leaved Evergreen 3 Needle leaved Evergreen 4 Dead 5 Deciduous 6 Evergreen	1 Broad leaved Deciduous 2 Broad leaved Evergreen 3 Needle leaved Evergreen 4 Dead 5 Deciduous 6 Evergreen

R – RIVERINE

ECOLOGICAL SYSTEM — Ecological Subsystem — CLASS — Subclass

1 – Tidal | 2 – Lower Perennial | 3 – Upper Perennial | 4 – Intermittent | 5 – Unknown Perennial

EM EMERGENT(1)	RB ROCK BOTTOM	UB UNCONSOLIDATED BOTTOM	AB AQUATIC BED	FL FLAT	SS STREAMBED	OW OPEN WATER Unknown Bottom
2 Nonpersistent 3 Narrow leaved Nonpersistent 4 Broad leaved Nonpersistent	1 Bedrock 2 Boulder	1 Cobble-Gravel 2 Sand 3 Mud 4 Organic	1 Submergent Algal 2 Submergent Vascular 3 Floating Leaved 4 Floating 5 Unknown Submergent 6 Unknown Surface	1 Cobble-Gravel 2 Sand 3 Mud 4 Organic 5 Vegetated Pioneer 6 Vegetated Non pioneer	1 Cobble-Gravel 2 Sand 3 Mud 4 Organic	

(1) EM EMERGENTS are only found in the Riverine Tidal and Riverine Lower Perennial Ecological Subsystem. All other classes are found in all Riverine Ecological Subsystems.

L – LACUSTRINE

ECOLOGICAL SYSTEM — Ecological Subsystem — CLASS — Subclass

1 – Limnetic

RB ROCK BOTTOM	UB UNCONSOLIDATED BOTTOM	AB AQUATIC BED	OW OPEN WATER Unknown Bottom
1 Bedrock 2 Boulder	1 Cobble-Gravel 2 Sand 3 Mud 4 Organic	1 Submergent Algal 2 Submergent Vascular 3 Floating Leaved 4 Floating 5 Unknown Submergent 7 Unknown Surface	

2 – Littoral

RB ROCK BOTTOM	UB UNCONSOLIDATED BOTTOM	AB AQUATIC BED	FL FLAT	RS ROCKY SHORE	BB BEACH/BAR	EM EMERGENT	OW OPEN WATER Unknown Bottom
1 Bedrock 2 Boulder	1 Cobble-Gravel 2 Sand 4 Organic	1 Submergent Algal 2 Submergent Vascular 3 Floating Leaved 4 Floating 5 Unknown Submergent 7 Unknown Surface	1 Cobble-Gravel 2 Sand 3 Mud 4 Organic 5 Vegetated Pioneer 6 Vegetated Non pioneer	1 Bedrock 2 Boulder	1 Cobble-Gravel 2 Sand	1 Persistent 3 Narrow leaved Nonpersistent 4 Broad leaved Nonpersistent	

P – PALUSTRINE

ECOLOGICAL SYSTEM — No Subsystem — CLASS — Subclass

RB ROCK BOTTOM	UB UNCONSOLIDATED BOTTOM	AB AQUATIC BED	FL FLAT	ML MOSS LICHEN	EM EMERGENT	SS SCRUB/SHRUB	FO FORESTED	OW OPEN WATER Unknown Bottom
1 Bedrock 2 Boulder	1 Cobble-Gravel 2 Sand 3 Mud 4 Organic	1 Submergent Algal 2 Submergent Vascular 3 Submergent Moss 4 Floating 5 Unknown Submergent 7 Unknown Surface	1 Cobble-Gravel 2 Sand 3 Mud 4 Organic 5 Vegetated Pioneer 6 Vegetated Non pioneer	1 Moss 2 Lichen	1 Persistent 2 Nonpersistent 3 Narrow leaved Nonpersistent 4 Broad leaved Nonpersistent 5 Narrow leaved Persistent 6 Broad leaved Persistent	1 Broad leaved Deciduous 2 Needle leaved Deciduous 3 Broad leaved Evergreen 4 Needle leaved Evergreen 5 Dead 6 Deciduous 7 Evergreen	1 Broad leaved Deciduous 2 Needle leaved Deciduous 3 Broad leaved Evergreen 4 Needle leaved Evergreen 5 Dead 6 Deciduous 7 Evergreen	

MODIFYING TERMS

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| WATER REGIME(1) | | |

NATIONAL WETLANDS INVENTORY

UNITED STATES DEPARTMENT OF THE INTERIOR

KENTON, DEL.-MD.

NW 4 WYOMING 15' QUADRANGLE

WILMINGTON SW

DOVER

SCALE 1:24000

1 0 1 MILE

1 0 1 KILOMETER

A/P 3/82

KENTON, DEL.-MD.

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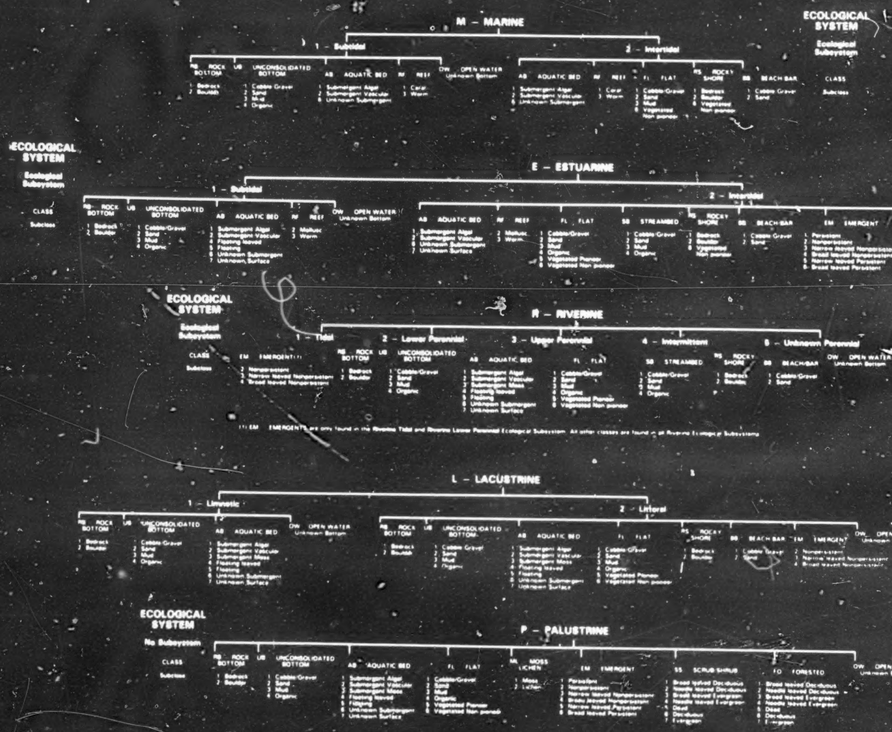

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MODIFYING TERMS

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WATER REGIME(1)

Non-Tidal
- A Temporary
- B Saturated
- C Seasonal
- D Seasonal Well drained
- E Seasonal Saturated
- F Artificially maintained
- G Intermittently Exposed

Tidal
- H Permanent
- J Irregularly Flooded
- K Artificial
- L Subtidal
- M Irregularly Exposed
- N Regular
- P Irregular
- R Seasonal Tidal
- S Temporary Tidal
- T Permanent Tidal
- U Unknown

WATER CHEMISTRY

Coastal Salinity
- 1 Hypersaline
- 2 Eusaline
- 3 Mixohaline (Brackish)
- 4 Polyhaline
- 5 Mesohaline
- 6 Oligohaline
- 7 Fresh

Inland Salinity
- 8 Fluvial
- 9 Brackish
- 0 Fresh

pH Modifiers for all Fresh Water
- a Acid
- b Circumneutral
- c Alkaline

SOIL
- 1 Organic
- 2 Mineral

SPECIAL MODIFIERS
- b Beaver
- d Partially Drained/Ditched
- f Farmed
- h Diked/Impounded
- k Artificial
- r Spoil
- x Excavated

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WILMINGTON SW (DOVER)

EARLEVILLE	CECILTON	MIDDLETOWN	TAYLORS BRIDGE	CAMDEN	SHILOH	BARRETON	MILLSVILLE
NW			NC			NE	
GALENA	HALLSTOWN	CLAYTON	SMYRNA	BOMBAY HOOK	BEN DAVIS POINT	CEDARVILLE	LOCUST GROVE
CHURCH HILL	SUDLERSVILLE	KENTON	DOVER	LITTLE CREEK		FORT PENSBORO	PORT MAHON
SW			SC			SE	
PRICE	GOLDSBORO	MAGNOLIA	WYOMING	FREDERICA	BROADKILL RIVER		

DOVER, DEL.

NATIONAL WETLANDS INVENTORY

UNITED STATES DEPARTMENT OF THE INTERIOR

4-wkm-1

WILMINGTON SW
DOVER

SCALE 1:24 000

22

39°07'30"

75°30'

A/P 4/81

DOVER, DEL.

WETLAND LEGEND

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M – MARINE

1 – Subtidal

RB ROCK BOTTOM	UB UNCONSOLIDATED BOTTOM	AB AQUATIC BED	RF REEF	OW OPEN WATER
1 Bedrock 2 Boulder	1 Cobble-Gravel 2 Sand 3 Mud 4 Organic	1 Submergent Algal 2 Submergent Vascular 8 Unknown Submergent	1 Coral 3 Worm	Unknown Bottom

2 – Intertidal

AB AQUATIC BED	RF REEF	FL FLAT	RS ROCKY SHORE	BB BEACH/BAR	CLASS
1 Submergent Algal 2 Submergent Vascular 8 Unknown Submergent	1 Coral 3 Worm	1 Cobble-Gravel 2 Sand 3 Mud 4 Organic 8 Vegetated Non-persist.	1 Bedrock 2 Boulder 3 Vegetated Non-persist.	1 Cobble-Gravel 2 Sand	Subclass

ECOLOGICAL SYSTEM
Ecological Subsystem

E – ESTUARINE

ECOLOGICAL SYSTEM
Ecological Subsystem

1 – Subtidal

CLASS	RB ROCK BOTTOM	UB UNCONSOLIDATED BOTTOM	AB AQUATIC BED	RF REEF	OW OPEN WATER
Subclass	1 Bedrock 2 Boulder	1 Cobble-Gravel 2 Sand 3 Mud 4 Organic	1 Submergent Algal 2 Submergent Vascular 3 Floating Vascular 4 Floating 8 Unknown Submergent 9 Unknown Surface	1 Mollusk 3 Worm	Unknown Bottom

2 – Intertidal

AB AQUATIC BED	RF REEF	FL FLAT	SB STREAMBED	RS ROCKY SHORE	BB BEACH/BAR	EM EMERGENT	SS SCRUB-SHRUB	FO FORESTED
1 Submergent Algal 2 Submergent Vascular 3 Floating Vascular 4 Floating 8 Unknown Submergent 9 Unknown Surface	1 Mollusk 3 Worm	1 Cobble-Gravel 2 Sand 3 Mud 4 Organic 8 Vegetated Pioneer 9 Vegetated Non-pioneer	1 Cobble-Gravel 2 Sand 4 Organic	1 Bedrock 2 Boulder 8 Vegetated Non-pioneer	1 Cobble/Gravel 2 Sand	1 Persistent 2 Nonpersistent 3 Narrow Leaved Nonpersistent 4 Broad Leaved Nonpersistent 5 Broad Leaved Persistent	1 Broad Leaved Deciduous 2 Broad Leaved Evergreen 3 Needle Leaved Deciduous 4 Needle Leaved Evergreen 5 Dead 6 Deciduous 7 Evergreen	1 Broad Leaved Deciduous 2 Broad Leaved Evergreen 3 Needle Leaved Deciduous 4 Needle Leaved Evergreen 5 Dead 6 Deciduous 7 Evergreen

ECOLOGICAL SYSTEM
Ecological Subsystem

R – RIVERINE

1 – Tidal | 2 – Lower Perennial | 3 – Upper Perennial | 4 – Intermittent | 5 – Unknown Perennial

CLASS	EM EMERGENT(1)	RB ROCK BOTTOM	UB UNCONSOLIDATED BOTTOM	AB AQUATIC BED	FL FLAT	SB STREAMBED	RS ROCKY SHORE	BB BEACH/BAR	OW OPEN WATER
Subclass	2 Nonpersistent 3 Narrow Leaved Nonpersistent 4 Broad Leaved Nonpersistent	1 Bedrock 2 Boulder	1 Cobble-Gravel 2 Sand 3 Mud 4 Organic	1 Submergent Algal 2 Submergent Vascular 3 Floating Vascular 4 Floating 8 Unknown Submergent 9 Unknown Surface	1 Cobble-Gravel 2 Sand 3 Mud 4 Organic 8 Vegetated Pioneer 9 Vegetated Non-pioneer	1 Cobble-Gravel 2 Sand 4 Organic	1 Bedrock 2 Boulder	1 Cobble/Gravel 2 Sand	Unknown Bottom

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ECOLOGICAL SYSTEM
Ecological Subsystem

L – LACUSTRINE

1 – Limnetic

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1 Bedrock 2 Boulder	1 Cobble-Gravel 2 Sand 3 Mud 4 Organic	1 Submergent Algal 2 Submergent Vascular 3 Submergent Moss 4 Floating Vascular 5 Floating 8 Unknown Submergent 9 Unknown Surface	Unknown Bottom

2 – Littoral

RB ROCK BOTTOM	UB UNCONSOLIDATED BOTTOM	AB AQUATIC BED	FL FLAT	RS ROCKY SHORE	BB BEACH/BAR	EM EMERGENT	OW OPEN WATER
1 Bedrock 2 Boulder	1 Cobble-Gravel 2 Sand 3 Mud 4 Organic	1 Submergent Algal 2 Submergent Vascular 3 Submergent Moss 4 Floating Vascular 5 Floating 8 Unknown Submergent 9 Unknown Surface	1 Cobble-Gravel 2 Sand 3 Mud 4 Organic 8 Vegetated Pioneer 9 Vegetated Non-pioneer	1 Bedrock 2 Boulder	1 Cobble-Gravel 2 Sand	1 Nonpersistent 2 Narrow leaved Nonpersistent 3 Broad leaved Nonpersistent	Unknown Bottom

ECOLOGICAL SYSTEM
Ecological Subsystem

CLASS
Subclass

ECOLOGICAL SYSTEM
No Subsystem

P – PALUSTRINE

CLASS	RB ROCK BOTTOM	UB UNCONSOLIDATED BOTTOM	AB AQUATIC BED	FL FLAT	ML MOSS LICHEN	EM EMERGENT	SS SCRUB SHRUB	FO FORESTED	OW OPEN WATER
Subclass	1 Bedrock 2 Boulder	1 Cobble-Gravel 2 Sand 3 Mud 4 Organic	1 Submergent Algal 2 Submergent Vascular 3 Submergent Moss 4 Floating Vascular 5 Floating 8 Unknown Submergent 9 Unknown Surface	1 Cobble-Gravel 2 Sand 3 Mud 4 Organic 8 Vegetated Pioneer 9 Vegetated Non-pioneer	1 Moss 2 Lichen	1 Persistent 2 Nonpersistent 3 Narrow leaved Nonpersistent 4 Broad leaved Nonpersistent 5 Needle leaved Persistent 6 Broad leaved Persistent	1 Broad leaved Deciduous 2 Broad leaved Evergreen 3 Needle leaved Deciduous 4 Needle leaved Evergreen 5 Dead 6 Deciduous 7 Evergreen	1 Broad leaved Deciduous 2 Needle leaved Deciduous 3 Broad leaved Evergreen 4 Needle leaved Evergreen 5 Dead 6 Deciduous 7 Evergreen	Unknown Bottom

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Non-Tidal		Tidal		Coastal Salinity	Inland Salinity		
A Temporary B Saturated C Seasonal D Seasonal Well-drained E Seasonal Saturated F Semipermanent G Intermittently Exposed	H Permanent J Intermittently Flooded K Artificial L Intermittently Exposed/Permanent M Intermittently Flooded/Temporary N Saturated/Semipermanent/Seasonal U Unknown	V Artificial W Subtidal X Irregularly Exposed Y Regularly Exposed Z Irregular	R Seasonal Tidal S Temporary Tidal T Semipermanent Tidal U Permanent Tidal Z Unknown	0 Hyperhaline 1 Euhaline 2 Mixohaline (Brackish) 3 Polyhaline 4 Mesohaline 5 Oligohaline 6 Fresh	pH Modifiers for all Fresh Water 5 Acid 6 Circumneutral 7 Alkaline	O Organic M Mineral	9 Diked/Impounded A Artificial B Beaver E Excavated H Diked/Impounded F Farmed S Spoil

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NW			NC			NE	
GALENA	MILLINGTON	CLAYTON	SMYRNA	BOMBAY HOOK	BIG STONE POINT	CEDARFIELD	SLAUGHTER CREEK
CHURCH HILL	SUDLERSVILLE	KENTON	DOVER	LITTLE CREEK		FOX TRUCK	PORT MAHON
SW			SC			SE	
[illegible]	[illegible]	MAPLEDELL	WYOMING	FREDERICA	BENNETTS PIER		

NATIONAL WETLANDS INVENTORY

UNITED STATES DEPARTMENT OF THE INTERIOR

LITTLE CREEK, DEL.

4-WLM-3

WILMINGTON SW.
DOVER

SCALE 1:24000

1 0 1 MILE
1000 0 1000 2000 3000 4000 5000 6000 7000 FEET
1 0 1 KILOMETER

INTERIOR-GEOLOGICAL SURVEY, WASHINGTON, D.C.-1988

23

39°07'30"
75°22'30"

4/17 4/91

LITTLE CREEK DEL

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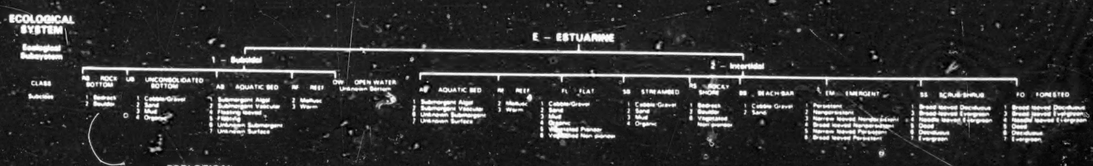

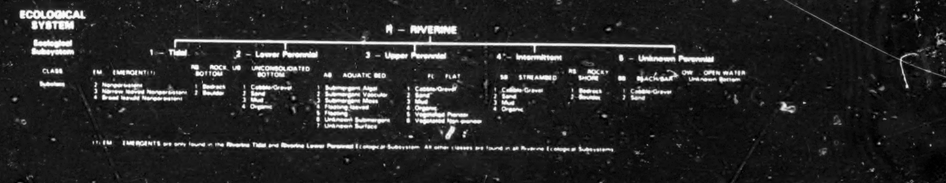

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SYMBOLOGY EXAMPLE

NOTES TO THE USER

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- Dominance type (either vegetative or sedentary animal) can be added to the map by the interested user.
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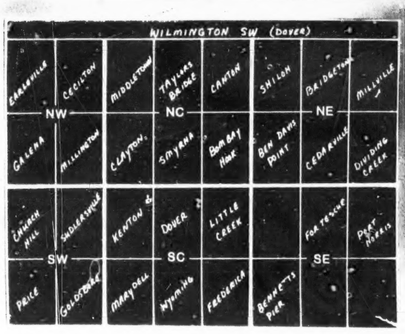

NATIONAL WETLANDS INVENTORY

UNITED STATES DEPARTMENT OF THE INTERIOR

MARYDEL, DEL.-MD.

4 WLM-2

DISTRICT NO 6

WILMINGTON SW

DOVER

MARYDEL, DEL.-MD.

24

WETLAND LEGEND

0 – Primarily represents upland areas, but may include unclassified wetlands such as man-modified areas, non-photo-identifiable areas and/or unintentional omissions.

M – MARINE

ECOLOGICAL SYSTEM
Ecological Subsystem
CLASS
Subclass

1 – Subtidal

RB ROCK BOTTOM	UB UNCONSOLIDATED BOTTOM	AB AQUATIC BED	RF REEF	OW OPEN WATER Unknown Bottom
1 Bedrock 2 Boulder	1 Cobble-Gravel 2 Sand 3 Mud 4 Organic	1 Submergent Algal 2 Submergent Vascular 3 Unknown Submergent	1 Coral 2 Worm	

2 – Intertidal

RS ROCKY SHORE	SB BEACH BAR	AB AQUATIC BED	RF REEF	FL FLAT
1 Bedrock 2 Boulder 3 Rubble 4 Vegetated 5 Non pioneer	1 Cobble-Gravel 2 Sand	1 Submergent Algal 2 Submergent Vascular 3 Unknown Submergent	1 Coral 2 Worm	1 Cobble-Gravel 2 Sand 3 Mud 4 Organic 5 Vegetated Pioneer 6 Vegetated Non pioneer

E – ESTUARINE

ECOLOGICAL SYSTEM
Ecological Subsystem
CLASS
Subclass

1 – Subtidal

RB ROCK BOTTOM	UB UNCONSOLIDATED BOTTOM	AB AQUATIC BED	RF REEF	OW OPEN WATER Unknown Bottom
1 Bedrock 2 Boulder	1 Cobble-Gravel 2 Sand 3 Mud 4 Organic	1 Submergent Algal 2 Submergent Vascular 3 Floating Algal 4 Floating Vascular 5 Unknown Submergent 6 Unknown Surface	1 Mollusc 2 Worm	

2 – Intertidal

RS ROCKY SHORE	SB BEACH BAR	AB AQUATIC BED	RF REEF	FL FLAT	SB STREAMBED
1 Bedrock 2 Boulder 3 Rubble 4 Vegetated 5 Non pioneer	1 Cobble-Gravel 2 Sand	1 Submergent Algal 2 Submergent Vascular 3 Unknown Submergent 4 Unknown Surface	1 Mollusc 2 Worm	1 Cobble-Gravel 2 Sand 3 Mud 4 Organic 5 Vegetated Pioneer 6 Vegetated Non pioneer	1 Cobble-Gravel 2 Sand 3 Mud 4 Organic

RS ROCKY SHORE	SB BEACH BAR	EM EMERGENT	SS SCRUB-SHRUB	FO FORESTED
1 Bedrock 2 Boulder 3 Rubble 4 Vegetated 5 Non pioneer	1 Cobble-Gravel 2 Sand	1 Persistent 2 Narrow leaved Persistent 3 Narrow leaved Non-persistent 4 Broad leaved Persistent 5 Narrow leaved Persistent 6 Broad leaved Persistent	1 Broad leaved Deciduous 2 Broad leaved Evergreen 3 Needle leaved Evergreen 4 Dead 5 Deciduous 6 Evergreen	1 Broad leaved Deciduous 2 Broad leaved Evergreen 3 Needle leaved Evergreen 4 Dead 5 Deciduous 6 Evergreen

R – RIVERINE

ECOLOGICAL SYSTEM
Ecological Subsystem
CLASS
Subclass

1 – Tidal | 2 – Lower Perennial | 3 – Upper Perennial | 4 – Intermittent | 5 – Unknown Perennial

RB ROCK BOTTOM	UB UNCONSOLIDATED BOTTOM	AB AQUATIC BED	FL FLAT	SB STREAMBED	RS ROCKY SHORE	SB BEACH BAR	OW OPEN WATER Unknown Bottom
1 Bedrock 2 Boulder	1 Cobble-Gravel 2 Sand 3 Mud 4 Organic	1 Submergent Algal 2 Submergent Vascular 3 Floating Algal 4 Floating Vascular 5 Unknown Submergent 6 Unknown Surface	1 Cobble-Gravel 2 Sand 3 Mud 4 Organic 5 Vegetated Pioneer 6 Vegetated Non pioneer	1 Cobble-Gravel 2 Sand 3 Mud 4 Organic	1 Bedrock 2 Boulder	1 Cobble-Gravel 2 Sand	

(1) EM EMERGENTS are only found in the Riverine Tidal and Riverine Lower Perennial Ecological Subsystem. All other classes are found in all Riverine Ecological Subsystems.

L – LACUSTRINE

ECOLOGICAL SYSTEM
Ecological Subsystem
CLASS
Subclass

1 – Limnetic

RB ROCK BOTTOM	UB UNCONSOLIDATED BOTTOM	AB AQUATIC BED	OW OPEN WATER Unknown Bottom
1 Bedrock 2 Boulder	1 Cobble-Gravel 2 Sand 3 Mud 4 Organic	1 Submergent Algal 2 Submergent Vascular 3 Submergent Moss 4 Floating Vascular 5 Floating 6 Emergent 7 Unknown Submergent 8 Unknown Surface	

2 – Littoral

RB ROCK BOTTOM	UB UNCONSOLIDATED BOTTOM	AB AQUATIC BED	FL FLAT	RS ROCKY SHORE	SB BEACH BAR	EM EMERGENT	OW OPEN WATER Unknown Bottom
1 Bedrock	1 Cobble-Gravel 2 Sand 3 Organic	1 Submergent Algal 2 Submergent Vascular 3 Floating Vascular 4 Floating 5 Emergent 6 Unknown Submergent 7 Unknown Surface	1 Cobble-Gravel 2 Sand 3 Mud 4 Organic 5 Vegetated Pioneer 6 Vegetated Non pioneer	1 Bedrock 2 Boulder	1 Cobble-Gravel 2 Sand	1 Persistent 2 Non-persistent	

P – PALUSTRINE

ECOLOGICAL SYSTEM
No Subsystem
CLASS
Subclass

RB ROCK BOTTOM	UB UNCONSOLIDATED BOTTOM	AB AQUATIC BED	FL FLAT	ML MOSS LICHEN	EM EMERGENT	SS SCRUB-SHRUB	FO FORESTED	OW OPEN WATER Unknown Bottom
1 Bedrock 2 Boulder	1 Cobble-Gravel 2 Sand 3 Mud 4 Organic	1 Submergent Algal 2 Submergent Vascular 3 Floating Algal 4 Floating Vascular 5 Floating 6 Unknown Submergent 7 Unknown Surface	1 Cobble-Gravel 2 Sand 3 Mud 4 Organic 5 Vegetated Pioneer 6 Vegetated Non pioneer	1 Moss 2 Lichen	1 Persistent 2 Non-persistent 3 Narrow leaved Non-persistent 4 Broad leaved Non-persistent 5 Narrow leaved Persistent 6 Broad leaved Persistent	1 Broad leaved Deciduous 2 Needle leaved Deciduous 3 Broad leaved Evergreen 4 Needle leaved Evergreen 5 Dead 6 Deciduous 7 Evergreen	1 Broad leaved Deciduous 2 Needle leaved Deciduous 3 Broad leaved Evergreen 4 Needle leaved Evergreen 5 Dead 6 Deciduous 7 Evergreen	

MODIFYING TERMS

In order to more adequately describe wetland and aquatic habitats one or more of the water regime, water chemistry, soil, or special modifiers may be applied at the class or lower level in the hierarchy. The farmed modifier may also be applied to the ecological system.

WATER REGIMES(1)

Non-Tidal		Tidal	
A Temporary	H Permanent	J Irregular	R Seasonal Tidal
B Saturated	K Intermittently Flooded	K Artificial	S Temporary Tidal
C Seasonal	U Unknown	L Subtidal	T Semipermanent Tidal
D Seasonal Well-drained		M Irregularly Exposed	U Permanent Tidal
E Seasonal Saturated		N Regularly Exposed	V Unknown
F Semipermanent		P Irregular	
G Intermittently Exposed			

WATER CHEMISTRY

Coastal Salinity	Inland Salinity	pH Modifiers for all Fresh Water
1 Hypersaline 2 Eusaline 3 Mixohaline (Brackish) 4 Polysaline 5 Mesohaline 6 Oligohaline 0 Fresh	1 Hypersaline 2 Eusaline 3 Mixosaline 0 Fresh	4 Acid 5 Circumneutral 6 Alkaline

SOIL

8 Organic Subclass

SPECIAL MODIFIERS

9 Beaver A Partially Drained/Ditched B Farmed	C Diked/Impounded D Artificial E Revetted F Excavated

(1) Information on the water regime modifiers found on this legend, but not found in the classification system, may be obtained from the above listed source.

SPECIAL NOTE

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SYMBOLOGY EXAMPLE

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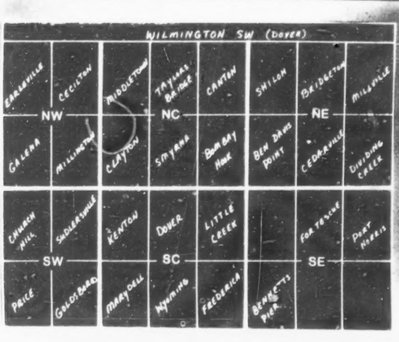

NATIONAL WETLANDS INVENTORY

UNITED STATES DEPARTMENT OF THE INTERIOR

WYOMING, DEL.

WILMINGTON SW
DOVER

SCALE 1:24000

1000 0 1000 2000 3000 4000 5000 6000 7000 FEET

1 0 1 2 3 4 5 KILOMETERS

25

39°00'

75°30'

A/P 4/01

WYOMING, DEL.

WETLAND LEGEND

0 – Primarily represents upland areas, but may include unclassified wetlands such as man-modified areas, non photo-identifiable areas and/or unintentional omissions.

M – MARINE

ECOLOGICAL SYSTEM
Ecological Subsystem
CLASS
Subclass

1 – Subtidal
RB ROCK BOTTOM: 1 Bedrock, 2 Boulder
UB UNCONSOLIDATED BOTTOM: 1 Cobble-Gravel, 2 Sand, 3 Mud, 4 Organic
AB AQUATIC BED: 1 Submergent Algal, 2 Submergent Vascular, 3 Floating Vascular, 4 Unknown Submergent, 5 Unknown Surface
RF REEF: 1 Coral, 2 Worm
OW OPEN WATER: Unknown Bottom

2 – Intertidal
AB AQUATIC BED: 1 Submergent Algal, 2 Submergent Vascular, 3 Unknown Submergent
RF REEF: 1 Coral, 2 Worm
FL FLAT: 1 Cobble-Gravel, 2 Sand, 3 Mud, 4 Organic, 5 Vegetated Pioneer, 6 Vegetated Non pioneer
RS ROCKY SHORE: 1 Bedrock, 2 Boulder, 3 Vegetated, 4 Non pioneer
BB BEACH BAR: 1 Cobble-Gravel, 2 Sand

E – ESTUARINE

ECOLOGICAL SYSTEM
Ecological Subsystem
CLASS
Subclass

1 – Subtidal
RB ROCK BOTTOM: 1 Bedrock, 2 Boulder
UB UNCONSOLIDATED BOTTOM: 1 Cobble-Gravel, 2 Sand, 3 Mud, 4 Organic
AB AQUATIC BED: 1 Submergent Algal, 2 Submergent Vascular, 3 Floating Vascular, 4 Unknown Submergent, 5 Unknown Surface
RF REEF: 1 Mollusk, 2 Worm
OW OPEN WATER: Unknown Bottom
RC

2 – Intertidal
AB AQUATIC BED: 1 Submergent Algal, 2 Submergent Vascular, 3 Floating Vascular, 4 Unknown Submergent, 5 Unknown Surface
RF REEF: 1 Mollusk, 2 Worm
FL FLAT: 1 Cobble-Gravel, 2 Sand, 3 Mud, 4 Organic, 5 Vegetated Pioneer, 6 Vegetated Non pioneer
SB STREAMBED: 1 Cobble-Gravel, 2 Sand, 3 Mud, 4 Organic
RS ROCKY SHORE: 1 Bedrock, 2 Boulder, 3 Vegetated, 4 Non pioneer
BB BEACH BAR: 1 Cobble-Gravel, 2 Sand
EM EMERGENT: 1 Persistent, 2 Nonpersistent
SS SCRUB-SHRUB: 1 Broad leaved Deciduous, 2 Broad leaved Evergreen, 3 Needle leaved Deciduous, 4 Needle leaved Evergreen, 5 Dead, 6 Deciduous, 7 Evergreen
FO FORESTED: 1 Broad leaved Deciduous, 2 Broad leaved Evergreen, 3 Needle leaved Deciduous, 4 Needle leaved Evergreen, 5 Dead, 6 Deciduous, 7 Evergreen

R – RIVERINE

ECOLOGICAL SYSTEM
Ecological Subsystem
CLASS
Subclass

1 – Tidal
2 – Lower Perennial
3 – Upper Perennial
4 – Intermittent
5 – Unknown Perennial
EM EMERGENT(1): 1 Nonpersistent, 2 Broad leaved Nonpersistent
RB ROCK BOTTOM: 1 Bedrock, 2 Boulder
UB UNCONSOLIDATED BOTTOM: 1 Cobble-Gravel, 2 Sand, 3 Mud, 4 Organic
AB AQUATIC BED: 1 Submergent Algal, 2 Submergent Vascular, 3 Floating Vascular, 4 Floating Nonvascular, 5 Unknown Submergent, 6 Unknown Surface
FL FLAT: 1 Cobble-Gravel, 2 Sand, 3 Mud, 4 Organic, 5 Vegetated Pioneer, 6 Vegetated Non pioneer
SB STREAMBED: 1 Cobble-Gravel, 2 Sand, 3 Mud, 4 Organic
RS ROCKY SHORE: 1 Bedrock, 2 Boulder
BB BEACH BAR: 1 Cobble-Gravel, 2 Sand
OW OPEN WATER: Unknown Bottom

(1) EM EMERGENTS are only found in the Riverine Tidal and Riverine Lower Perennial Ecological Subsystem. All other classes are found in all Riverine Ecological Subsystems

L – LACUSTRINE

ECOLOGICAL SYSTEM
Ecological Subsystem
CLASS
Subclass

1 – Limnetic
RB ROCK BOTTOM: 1 Bedrock, 2 Boulder
UB UNCONSOLIDATED BOTTOM: 1 Cobble-Gravel, 2 Sand, 3 Mud, 4 Organic
AB AQUATIC BED: 1 Submergent Algal, 2 Submergent Vascular, 3 Submergent Moss, 4 Floating Vascular, 5 Floating Nonvascular, 6 Unknown Submergent, 7 Unknown Surface
OW OPEN WATER: Unknown Bottom

2 – Littoral
RB ROCK BOTTOM: 1 Bedrock, 2 Boulder
UB UNCONSOLIDATED BOTTOM: 1 Cobble-Gravel, 2 Sand, 3 Mud, 4 Organic
AB AQUATIC BED: 1 Submergent Algal, 2 Submergent Vascular, 3 Submergent Moss, 4 Floating Vascular, 5 Floating Nonvascular, 6 Unknown Submergent, 7 Unknown Surface
FL FLAT: 1 Cobble-Gravel, 2 Sand, 3 Mud, 4 Organic, 5 Vegetated Pioneer, 6 Vegetated Non pioneer
RS ROCKY SHORE: 1 Bedrock, 2 Boulder
BB BEACH BAR: 1 Cobble-Gravel, 2 Sand
EM EMERGENT: 1 Nonpersistent, 2 Narrow leaved Nonpersistent, 3 Broad leaved Nonpersistent
OW OPEN WATER: Unknown Bottom

P – PALUSTRINE

ECOLOGICAL SYSTEM
No Subsystem
CLASS
Subclass

RB ROCK BOTTOM: 1 Bedrock, 2 Boulder
UB UNCONSOLIDATED BOTTOM: 1 Cobble-Gravel, 2 Sand, 3 Mud, 4 Organic
AB AQUATIC BED: 1 Submergent Algal, 2 Submergent Vascular, 3 Submergent Moss, 4 Floating Vascular, 5 Floating Nonvascular, 6 Unknown Submergent, 7 Unknown Surface
FL FLAT: 1 Cobble-Gravel, 2 Sand, 3 Mud, 4 Organic, 5 Vegetated Pioneer, 6 Vegetated Non pioneer
ML MOSS LICHEN: 1 Moss, 2 Lichen
EM EMERGENT: 1 Persistent, 2 Nonpersistent, 3 Narrow leaved Nonpersistent, 4 Broad leaved Nonpersistent, 5 Narrow leaved Persistent, 6 Broad leaved Persistent
SS SCRUB-SHRUB: 1 Broad leaved Deciduous, 2 Needle leaved Deciduous, 3 Broad leaved Evergreen, 4 Needle leaved Evergreen, 5 Dead, 6 Deciduous, 7 Evergreen
FO FORESTED: 1 Broad leaved Deciduous, 2 Needle leaved Deciduous, 3 Broad leaved Evergreen, 4 Needle leaved Evergreen, 5 Dead, 6 Deciduous, 7 Evergreen
OW OPEN WATER: Unknown Bottom

MODIFYING TERMS

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WATER REGIMES(1)

Non-Tidal
A Temporary
B Saturated
C Seasonal
D Seasonal Well drained
E Seasonal Saturated
F Semipermanent
G Intermittent Exposed

Tidal
H Permanent
J Permanently Flooded
K Intermittently Exposed/Permanent
L Intermittently Flooded/Permanent
M Intermittently Exposed/Artificial
U Unknown

N Artificial
P Irregularly Exposed
R Irregularly Flooded

S Regularly Flooded
T Temporarily Flooded
V Permanently Flooded-Tidal
U Unknown

WATER CHEMISTRY

Coastal Salinity
1 Hypersaline
2 Eusaline
3 Mixosaline (Brackish)
4 Mixohaline
5 Polysaline
6 Fresh

Inland Salinity
pH Modifiers for all Fresh Water
7 Hyperhaline
8 Eusaline
9 Oligosaline
0 Fresh
A Acid
B Circumneutral
C Alkaline

SOIL
S Organic
T Mineral

SPECIAL MODIFIERS
B Beaver
H Partially Drained/Ditched
F Farmed
X Excavated
I Impounded
D Diked
R Artificial

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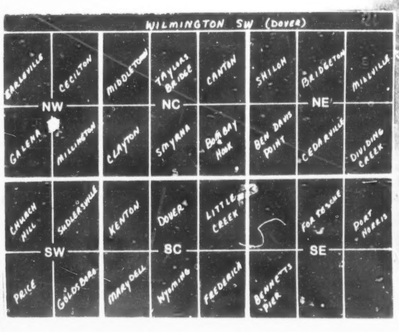
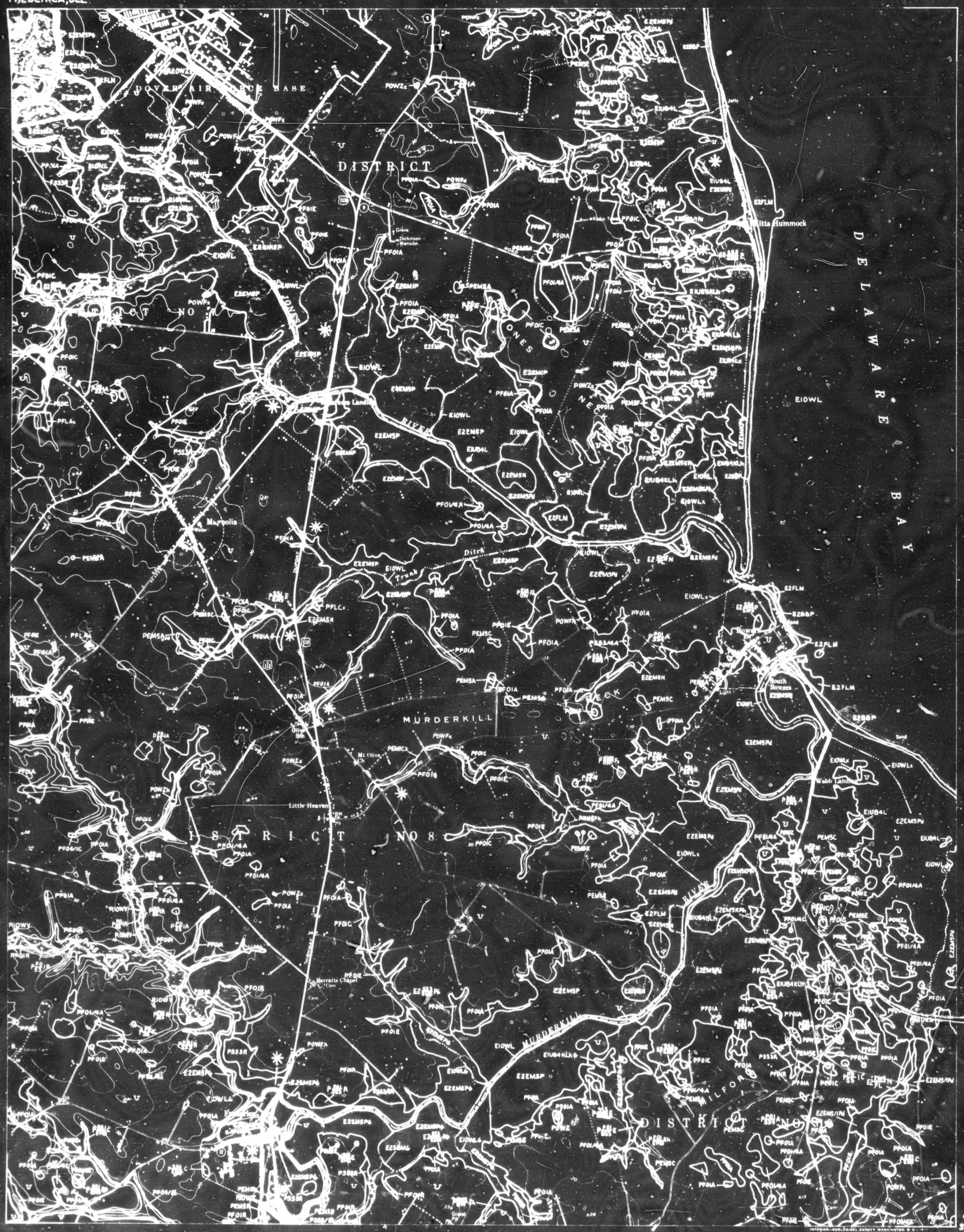


NATIONAL WETLANDS INVENTORY
UNITED STATES DEPARTMENT OF THE INTERIOR

FREDERICA, DEL.

4-WLM-2



WILMINGTON, SW
DOVER

SCALE 1:24 000

INTERIOR-GEOLOGICAL SURVEY WASHINGTON D.C.

26
39°00'
75°22'30"

N/P 4/82
FREDERICA, DEL.

WETLAND LEGEND

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| WATER REGIME(1) | | |

NATIONAL WETLANDS INVENTORY

UNITED STATES DEPARTMENT OF THE INTERIOR

WETLAND LEGEND

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M – MARINE

1 – Subtidal

RB ROCK BOTTOM	UB UNCONSOLIDATED BOTTOM	AB AQUATIC BED	RF REEF	OW OPEN WATER Unknown Bottom
1 Bedrock 2 Boulder	1 Cobble/Gravel 2 Sand 3 Mud 4 Organic	1 Submergent Algal 2 Submergent Vascular 3 Unknown Submergent	1 Coral 2 Worm	

2 – Intertidal

AB AQUATIC BED	RF REEF	FL FLAT	RS ROCKY SHORE	BB BEACH/BAR
1 Submergent Algal 2 Submergent Vascular 3 Unknown Submergent	1 Coral 2 Worm	1 Cobble/Gravel 2 Sand 3 Mud 4 Organic 5 Vegetated Pioneer 6 Vegetated Non pioneer	1 Bedrock 2 Boulder 3 Vegetated 4 Vegetated Non pioneer	1 Cobble Gravel 2 Sand

ECOLOGICAL SYSTEM
Ecological Subsystem
CLASS
Subclass

E – ESTUARINE

1 – Subtidal

RB ROCK BOTTOM	UB UNCONSOLIDATED BOTTOM	AB AQUATIC BED	RF REEF	OW OPEN WATER Unknown Bottom
1 Bedrock 2 Boulder	1 Cobble/Gravel 2 Sand 3 Mud 4 Organic	1 Submergent Algal 2 Submergent Vascular 3 Floating Leaved 4 Floating Mass 5 Unknown Submergent 6 Unknown Surface	1 Mollusc 2 Worm	

2 – Intertidal

AB AQUATIC BED	RF REEF	FL FLAT	SS STREAMBED	RS ROCKY SHORE	BB BEACH/BAR	EM EMERGENT	SS SCRUB/SHRUB	FO FORESTED
1 Submergent Algal 2 Submergent Vascular 3 Floating Leaved 4 Floating Mass 5 Unknown Submergent 6 Unknown Surface	1 Mollusc 2 Worm	1 Cobble/Gravel 2 Sand 3 Mud 4 Organic 5 Vegetated Pioneer 6 Vegetated Non pioneer	1 Cobble/Gravel 2 Sand 3 Mud 4 Organic	1 Bedrock 2 Boulder 3 Vegetated 4 Vegetated Non pioneer	1 Cobble Gravel 2 Sand	1 Persistent 2 Non-persistent 3 Narrow leaved Nonpersistent 4 Broad leaved Nonpersistent 5 Narrow leaved Persistent 6 Broad leaved Persistent	1 Broad leaved Deciduous 2 Broad leaved Evergreen 3 Needle leaved Evergreen 4 Dead 5 Deciduous 6 Evergreen	1 Broad leaved Deciduous 2 Broad leaved Evergreen 3 Needle leaved Evergreen 4 Dead 5 Deciduous 6 Evergreen

ECOLOGICAL SYSTEM
Ecological Subsystem
CLASS
Subclass

R – RIVERINE

1 – Tidal | 2 – Lower Perennial | 3 – Upper Perennial | 4 – Intermittent | 5 – Unknown Perennial

RB ROCK BOTTOM	UB UNCONSOLIDATED BOTTOM	AB AQUATIC BED	FL FLAT	SS STREAMBED	RS ROCKY SHORE	BB BEACH/BAR	OW OPEN WATER Unknown Bottom
1 Bedrock 2 Boulder	1 Cobble/Gravel 2 Sand 3 Mud 4 Organic	1 Submergent Algal 2 Submergent Vascular 3 Floating Leaved 4 Floating Mass 5 Unknown Submergent 6 Unknown Surface	1 Cobble/Gravel 2 Sand 3 Mud 4 Organic 5 Vegetated Pioneer 6 Vegetated Non pioneer	1 Cobble/Gravel 2 Sand 3 Mud 4 Organic	1 Bedrock 2 Boulder 3 Vegetated 4 Vegetated Non pioneer	1 Cobble/Gravel 2 Sand	

ECOLOGICAL SYSTEM
Ecological Subsystem
CLASS
Subclass

(1) EM – EMERGENTS are only found in the Riverine Tidal and Riverine Lower Perennial Ecological Subsystem. All other classes are found in all Riverine Ecological Subsystems

L – LACUSTRINE

1 – Limnetic

RB ROCK BOTTOM	UB UNCONSOLIDATED BOTTOM	AB AQUATIC BED	OW OPEN WATER Unknown Bottom
1 Bedrock 2 Boulder	1 Cobble/Gravel 2 Sand 3 Mud 4 Organic	1 Submergent Algal 2 Submergent Vascular 3 Floating Mass 4 Floating Leaved 5 Unknown Submergent 6 Unknown Surface	

2 – Littoral

RB ROCK BOTTOM	UB UNCONSOLIDATED BOTTOM	AB AQUATIC BED	FL FLAT	RS ROCKY SHORE	BB BEACH/BAR	EM EMERGENT	OW OPEN WATER Unknown Bottom
1 Bedrock 2 Boulder	1 Cobble/Gravel 2 Sand 3 Mud 4 Organic	1 Submergent Algal 2 Submergent Vascular 3 Floating Mass 4 Floating Leaved 5 Unknown Submergent 6 Unknown Surface	1 Cobble/Gravel 2 Sand 3 Mud 4 Organic 5 Vegetated Pioneer 6 Vegetated Non pioneer	1 Bedrock 2 Boulder	1 Cobble Gravel 2 Sand	1 Nonpersistent 2 Narrow leaved Nonpersistent 3 Broad leaved Nonpersistent	

ECOLOGICAL SYSTEM
Ecological Subsystem
CLASS
Subclass

ECOLOGICAL SYSTEM
Ecological Subsystem

P – PALUSTRINE

RB ROCK BOTTOM	UB UNCONSOLIDATED BOTTOM	AB AQUATIC BED	FL FLAT	MA MOSS LICHEN	EM EMERGENT	SS SCRUB/SHRUB	FO FORESTED	OW OPEN WATER Unknown Bottom
1 Bedrock 2 Boulder	1 Cobble/Gravel 2 Sand 3 Mud 4 Organic	1 Submergent Algal 2 Submergent Vascular 3 Floating Mass 4 Floating Leaved 5 Unknown Submergent 6 Unknown Surface	1 Cobble/Gravel 2 Sand 3 Mud 4 Organic 5 Vegetated Pioneer 6 Vegetated Non pioneer	1 Moss 2 Lichen	1 Persistent 2 Non-persistent 3 Narrow leaved Nonpersistent 4 Broad leaved Nonpersistent 5 Narrow leaved Persistent 6 Broad leaved Persistent	1 Broad leaved Deciduous 2 Needle leaved Deciduous 3 Broad leaved Evergreen 4 Needle leaved Evergreen 5 Dead 6 Deciduous 7 Evergreen	1 Broad leaved Deciduous 2 Needle leaved Deciduous 3 Broad leaved Evergreen 4 Needle leaved Evergreen 5 Dead 6 Deciduous 7 Evergreen	

MODIFYING TERMS

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WATER REGIME(1)								WATER CHEMISTRY			SOIL	SPECIAL MODIFIERS
Non-Tidal		Tidal						Coastal Salinity	Inland Salinity	pH Modifiers for all Fresh Water		
A Temporary B Saturated C Seasonal D Seasonal Well Drained E Seasonal Saturated F Semipermanent G Intermittently Exposed	H Permanent J Intermittently Flooded K Artificial Z Inundated 4 Saturated/Temporary 5 Seasonal/Temporary 6 Intermittent/Temporary U Unknown	L Subtidal M Irregularly Exposed N Regularly Exposed P Irregular R Permanent S Artificial T Intermittent V Persistent W Unknown						1 Hyperhaline 2 Euhaline 3 Mixohaline (Brackish) 4 Polyhaline 5 Mesohaline 6 Oligohaline 0 Fresh	7 Hypersaline 8 Eusaline 9 Miksosaline A Athalassic	1 Acid 2 Circumneutral 3 Alkaline	1 Organic 2 Mineral	1 Beaver 2 Partially Drained/Ditched 3 Farmed	4 Diked/Impounded 5 Artificial 6 Spoil 7 Excavated

(1) Information on the water regime modifiers found on the legend, but not found in the classification system, may be obtained from the above listed source

SPECIAL NOTE

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SYMBOLOGY EXAMPLE

NOTES TO THE USER

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WILMINGTON SW (Dover)

EARLEVILLE	CECILTON	MIDDLETOWN	TYBOUTS CORNER	CANTON	SMYRNA	BRIDGEVILLE	MILLSVILLE
NW			NC			NE	
GALENA	MILLINGTON	CLAYTON	SMYRNA	BOMBAY HOOK	BEAR DAMS POINT	CEDARVILLE	DIMMOCK CREEK
CHURCH HILL	SUDLERSVILLE	KENTON	DOVER	LITTLE CREEK		FORT PENSBORO	PORT MAHON
SW			SC			SE	
PRICE	GOLDSBORO	MARYDELL	WYOMING	FREDERICA	BENEDICTS POINT		

NATIONAL WETLANDS INVENTORY

UNITED STATES DEPARTMENT OF THE INTERIOR

WILMINGTON SW
DOVER

SCALE 1:24000

28

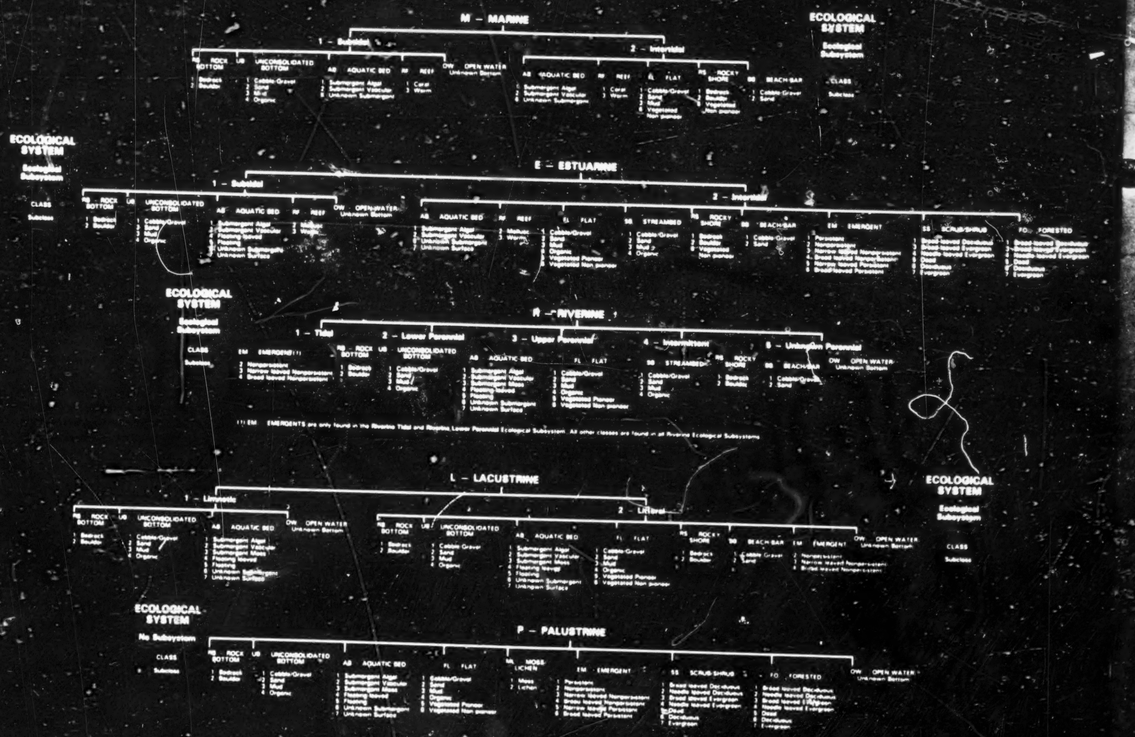
39°07'30"
75°00'

A/P 3/77

PORT NORRIS, N.J.

WETLAND LEGEND

U – Primarily represents upland areas, but may include unclassified wetlands such as man-modified areas, non photo-identifiable areas and/or unintentional omissions.



MODIFYING TERMS

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WATER REGIME(1)				WATER CHEMISTRY			SOIL	SPECIAL MODIFIERS
Non-Tidal		Tidal		Coastal Salinity	Inland Salinity	pH Modifiers for all Fresh Water		
A Temporary B Saturated C Seasonal D Seasonal, Well-drained E Seasonal, Saturated F Artificially Flooded G Intermittently Exposed	H Permanent J Intermittently Flooded K Artificial L Intermittently Exposed/Permanent M Semipermanent/Permanent N Intermittently Exposed/Artificial	P Regularly Flooded Q Irregularly Flooded R Seasonal Tidal S Temporary Tidal T Intermittently Tidal U Unknown	V Permanent Tidal W Intermittently Flooded Y Artificial Z Unknown	1 Hyperhaline 2 Euhaline 3 Mixohaline (Brackish) 4 Polyhaline 5 Mesohaline 6 Oligohaline 7 Fresh	1 Hypersaline 2 Saline 3 Mixosaline 4 Fresh	1 Acid 2 Circumneutral 3 Alkaline	1 Organic 2 Mineral	1 Diked/Impounded 2 Artificial 3 Partially Drained/Ditched 4 Farmed 5 Excavated

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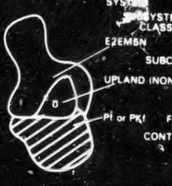

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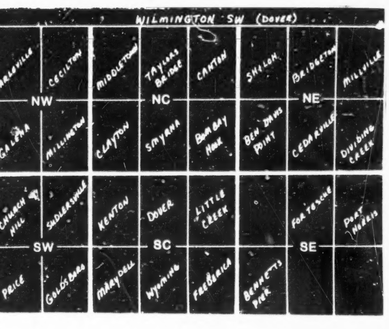

NATIONAL WETLANDS INVENTORY
UNITED STATES DEPARTMENT OF THE INTERIOR

4-WLM-4

BENNETTS PIER, DEL

BLAKE CHANNEL

DELAWARE BAY

E1OWL

WILMINGTON SW
DOVER

SCALE 1:24000

29

39°00'

75°15'

A/P 4/21

BENNETTS PIER, DEL.

WETLAND LEGEND

U – Primarily represents upland areas, but may include unclassified wetlands such as man-modified areas, non photo-identifiable areas and/or unintentional omissions

M – MARINE

ECOLOGICAL SYSTEM: Ecological Subsystem

1 – Subtidal: RB ROCK BOTTOM (1 Bedrock, 2 Boulder); UB UNCONSOLIDATED BOTTOM (1 Cobble-Gravel, 2 Sand, 3 Mud, 4 Organic); AB AQUATIC BED (1 Submergent Algal, 2 Submergent Vascular, 3 Floating-leaved, 4 Floating, 5 Unknown Submergent, 6 Unknown Surface); RF REEF (1 Coral, 2 Worm); OW OPEN WATER Unknown Bottom; CLASS: Subclass

2 – Intertidal: AB AQUATIC BED (1 Submergent Algal, 2 Submergent Vascular, 5 Unknown Submergent); RF REEF (1 Coral, 2 Worm); FL FLAT (1 Cobble-Gravel, 2 Sand, 3 Mud, 4 Organic, 5 Vegetated, 6 Non-pioneer); RS ROCKY SHORE (1 Bedrock, 2 Boulder, 3 Vegetated, 4 Non-pioneer); BB BEACH-BAR (1 Cobble-Gravel, 2 Sand); CLASS: Subclass

E – ESTUARINE

ECOLOGICAL SYSTEM: Ecological Subsystem

1 – Subtidal: RB ROCK BOTTOM (1 Bedrock, 2 Boulder); UB UNCONSOLIDATED BOTTOM (1 Cobble-Gravel, 2 Sand, 3 Mud, 4 Organic); AB AQUATIC BED (1 Submergent Algal, 2 Submergent Vascular, 3 Floating-leaved, 4 Floating, 5 Unknown Submergent, 6 Unknown Surface); RF REEF (1 Mollusk, 2 Worm); OW OPEN WATER Unknown Bottom; CLASS: Subclass

2 – Intertidal: AB AQUATIC BED (1 Submergent Algal, 2 Submergent Vascular, 3 Floating-leaved, 4 Floating, 5 Unknown Submergent, 6 Unknown Surface); RF REEF (1 Mollusk, 2 Worm); FL FLAT (1 Cobble-Gravel, 2 Sand, 3 Mud, 4 Organic, 5 Vegetated Pioneer, 6 Vegetated Non-pioneer); SB STREAMBED (1 Cobble-Gravel, 2 Sand, 3 Mud, 4 Organic); RS ROCKY SHORE (1 Bedrock, 2 Boulder, 3 Vegetated, 4 Non-pioneer); BB BEACH-BAR (1 Cobble-Gravel, 2 Sand); EM EMERGENT (1 Persistent, 2 Non-persistent, 3 Narrow-leaved Persistent, 4 Broad-leaved Persistent, 5 Narrow-leaved Non-persistent, 6 Broad-leaved Non-persistent); SS SCRUB-SHRUB (1 Broad-leaved Deciduous, 2 Broad-leaved Evergreen, 3 Needle-leaved Evergreen, 4 Dead, 5 Deciduous, 6 Evergreen); FO FORESTED (1 Broad-leaved Deciduous, 2 Broad-leaved Evergreen, 3 Needle-leaved Evergreen, 4 Dead, 5 Deciduous, 6 Evergreen)

R – RIVERINE

ECOLOGICAL SYSTEM: Ecological Subsystem

1 – Tidal; 2 – Lower Perennial; 3 – Upper Perennial; 4 – Intermittent; 5 – Unknown Perennial

RB ROCK BOTTOM (1 Bedrock, 2 Boulder); UB UNCONSOLIDATED BOTTOM (1 Cobble-Gravel, 2 Sand, 3 Mud, 4 Organic); AB AQUATIC BED (1 Submergent Algal, 2 Submergent Vascular, 3 Floating-leaved, 4 Floating, 5 Unknown Submergent, 6 Unknown Surface); FL FLAT (1 Cobble-Gravel, 2 Sand, 3 Mud, 4 Organic, 5 Vegetated Pioneer, 6 Vegetated Non-pioneer); SB STREAMBED (1 Cobble-Gravel, 2 Sand, 3 Mud, 4 Organic); RS ROCKY SHORE (1 Bedrock, 2 Boulder); BB BEACH-BAR (1 Cobble-Gravel, 2 Sand); OW OPEN WATER Unknown Bottom; CLASS: Subclass

EM – EMERGENTS (1): 1 Persistent, 2 Narrow-leaved Non-persistent, 3 Broad-leaved Non-persistent

(1) EM – EMERGENTS are only found in the Riverine Tidal and Riverine Lower Perennial Ecological Subsystem. All other classes are found in all Riverine Ecological Subsystems.

L – LACUSTRINE

ECOLOGICAL SYSTEM: Ecological Subsystem

1 – Limnetic; 2 – Littoral

RB ROCK BOTTOM (1 Bedrock, 2 Boulder); UB UNCONSOLIDATED BOTTOM (1 Cobble-Gravel, 2 Sand, 3 Mud, 4 Organic); AB AQUATIC BED (1 Submergent Algal, 2 Submergent Vascular, 3 Floating-leaved, 4 Floating, 5 Unknown Submergent, 6 Unknown Surface); FL FLAT (1 Cobble-Gravel, 2 Sand, 3 Mud, 4 Organic, 5 Vegetated Pioneer, 6 Vegetated Non-pioneer); RS ROCKY SHORE (1 Bedrock, 2 Boulder); BB BEACH-BAR (1 Cobble-Gravel, 2 Sand); EM EMERGENT (1 Persistent, 2 Non-persistent); OW OPEN WATER Unknown Bottom; CLASS: Subclass

P – PALUSTRINE

ECOLOGICAL SYSTEM: No Subsystem

RB ROCK BOTTOM (1 Bedrock, 2 Boulder); UB UNCONSOLIDATED BOTTOM (1 Cobble-Gravel, 2 Sand, 3 Mud, 4 Organic); AB AQUATIC BED (1 Submergent Algal, 2 Submergent Vascular, 3 Floating-leaved, 4 Floating, 5 Unknown Submergent, 6 Unknown Surface); FL FLAT (1 Cobble-Gravel, 2 Sand, 3 Mud, 4 Organic, 5 Vegetated Pioneer, 6 Vegetated Non-pioneer); MS MOSS-LICHEN (1 Moss, 2 Lichen); EM EMERGENT (1 Persistent, 2 Non-persistent, 3 Narrow-leaved Non-persistent, 4 Narrow-leaved Persistent, 5 Broad-leaved Persistent); SS SCRUB-SHRUB (1 Broad-leaved Deciduous, 2 Needle-leaved Deciduous, 3 Broad-leaved Evergreen, 4 Needle-leaved Evergreen, 5 Dead, 6 Deciduous, 7 Evergreen); FO FORESTED (1 Broad-leaved Deciduous, 2 Needle-leaved Deciduous, 3 Broad-leaved Evergreen, 4 Needle-leaved Evergreen, 5 Dead, 6 Deciduous, 7 Evergreen); OW OPEN WATER Unknown Bottom; CLASS: Subclass

MODIFYING TERMS

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WATER REGIME(1)

Non-Tidal: A Temporary; B Saturated; C Seasonal; D Seasonal Well-drained; E Seasonal Saturated; F Semipermanent; G Intermittent Exposed; H Permanent; J Intermittently Flooded; K Artificial; Z Intermittent, Exposed/Permanent; W Intermittent, Flooded/Permanent; Y Saturated/Semipermanent/Seasonal; U Unknown Exposed/Flooded

Tidal: L Subtidal; M Irregularly Exposed; N Regularly Flooded; P Irregularly Flooded; R Semipermanent Tidal; S Temporary Tidal; T Intermittent Tidal; U Unknown Tidal

WATER CHEMISTRY

Coastal Salinity: 1 Hyperhaline, 2 Euhaline, 3 Mixohaline (Brackish), 4 Polyhaline, 5 Mesohaline, 6 Oligohaline, 7 Fresh

Inland Salinity: 7 Fresh

pH Modifiers for all Fresh Water: A Acid, C Circumneutral, K Alkaline

SOIL: 1 Organic, 2 Mineral

SPECIAL MODIFIERS: b Beaver, d Partially Drained/Ditched, f Farmed, h Diked/Impounded, r Artificial, s Spoil, x Excavated

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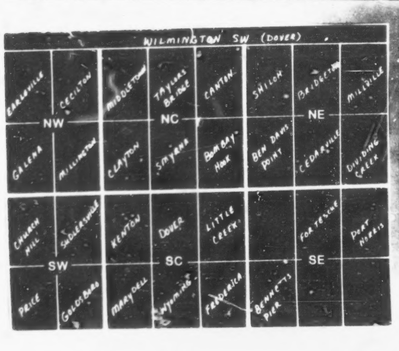
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